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<120> Nucleic Acid Molecules And Other Molecules Associated With The
Sucrose Pathway

<130> 38-21(15089)B

<140> 09/237,183

<141> 1999-01-26

<150> US 60/067,000

<151> 1997-11-24

<160> 2814

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<211> 234

<212> DNA

<213> Zea mays

<400> 1

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cactcgaata atctatggag gctctgttca aggataagaa gccagtcaag gtcatacaaga 180
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<210> 2

<211> 303

<212> DNA

<213> Zea mays

<400> 2

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ttgcagcctg atgagccctg tctgttagaa ataagtagtc atctgtgttt caacctcacc 120
tgccacgccg taaagcctgt aggaggtgat ccgtgtgatg gtgtgccgtc accttctgc 180
ctttgctgat ttgcaacacc acggaaacag aaaataacgc aagatgtcac attttttttg 240
ttctcgtagt ccgtagacct tgtgtacgtt acgggagttc agttgcacgt tggcgatgta 300
cgt 303
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<210> 3
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 <213> Zea mays

<400> 3

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 agacaaaatg ttaaggttat tgctgcata ggcgagcttc tggaagagag ggaagcaggg 120
 aaaacttttg aagtatgttt tgagcagatg aaggcttttg cagatagtat ttcgcactgg 180
 gccgatgttg tgattgcata tgagcctgtt tgggctattg gaatcggtaa ag 232

<210> 4
 <211> 287
 <212> DNA
 <213> Zea mays

<400> 4

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 gaacaaagga ctccattagc aaacttgtct ctgaattgaa tgctgctacc cttgaaactg 120
 atgtagatgt tgtggtggca cctccattca tctatattgt tcaggttaag aattcactaa 180
 ctggtcgcat tgaggtttct gtcagaatg tgtggattgg aaaaggagga gcctacaccg 240
 gagagatcag tgcagaacaa ctggtggaca tcggctgtca atggggtt 287

<210> 5
 <211> 109
 <212> DNA
 <213> Zea mays

<400> 5

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 cgaagctccg cacccaatct aatcgacacc tcaccgagat gggccgcaa 109

<210> 6
 <211> 239
 <212> DNA
 <213> Zea mays

<400> 6

gcaatccaat ctagaagctc ccctctccct ccctccctct ctctctctct cttcgccgctc 60

cgaagctccg cacgcaatct aatcgacacc tcagcgagat gggccgcaag ttcgtcgtcg 120
 gtggcaactg gaaatgcaat ggaaccacag atcaggtcga gaagattgtc aaaaccctga 180
 atgaaggaca agttcccctt cagatgtgct cgaggtcgtt gtcaaccctc cttatgtcg 239

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 <213> Zea mays

<220>
 <221> unsure
 <222> (1)..(258)
 <223> unsure at all n locations

<400> 7

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 cggcgccttc accggcgaga tcagtgtga gatgctggta cacctgcang tagcctgggt 120
 catggtgacg acatctgagc gcagagctct gttgggtgaa tcagtgatgt gctgctgata 180
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<210> 8
 <211> 98
 <212> DNA
 <213> Zea mays

<220>
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 <222> (1)..(98)
 <223> unsure at all n locations

<400> 8

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 tgaaatgctt gttaatatgg gaattccttg ggttatta 98

<210> 9
 <211> 253
 <212> DNA
 <213> Zea mays

<400> 9

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acttcaagat gaatggagtc actgactcta tcaagtccat cgtctctaac atcaacaact 120
ccaagcgtga cccgtccacc gaagtcgtca tcgccccctcc cgccatctat ctgcgcgtca 180
cccgcgcaact tgccgacccc tcagtcggtg tctcggccca gaacgtctat gacaagccta 240
gcggtgctta tac 253

<210> 10
<211> 290
<212> DNA
<213> Zea mays

<400> 10

ggtaaacctg caggtgccct gggtcatttt gggacattct gagcgcagag ctctgttggg 60
tgaatccagt gattttgttg ctgataaagt tgcataatgca ctactcaag gtctcaaggt 120
aattgcttgc attggtgaga cccttgagca gagagaggca ggaacaacaa tggatgttgt 180
tgctgcacaa acaaaggcta ttgctgaaaa aatatcagat tggacaaata ttgtgttggc 240
atatgaacca gtttgggcta ttggtaccgg caaagttgca actcctgctc 290

<210> 11
<211> 256
<212> DNA
<213> Zea mays

<400> 11

tggtgaatcc agtgattttg ttgctgataa agttgcatat gcactcactc aaggtctcaa 60
ggtaattgct tgcattggtg agacccttga gcagagagac gcaggaacaa caatggatgt 120
tgttgctgca caaacaagg ctattgctga aaaaatatca gattggacaa atattgtgtt 180
ggcatatgaa ccagtttggg ctattggtac cggcaaagtt gcaattccgg ttcaggctca 240
ggaggtccat gatggc 256

<210> 12
<211> 163
<212> DNA
<213> Zea mays

<400> 12

ggtcaatctt cttggcctca cgatacttgc ggagaaggcg cctcagcaca cgcatectcc 60
 tcatccacag aaccttggtg ggtagcctag cctccctggt acccctacgc ttaccatata 120
 ctgagtggcg tcccttttgc ttggcgcat gtgcccttct tgc 163

<210> 13
 <211> 310
 <212> DNA
 <213> Zea mays

<400> 13

gctgcgcaa gagttccatg ttgctgctca gaactgccgg gtgaagaagg gaggtgcttt 60
 cactggtgaa gtcagtgtg agatgctcgt caaccttggt gttccctggg tcattcttgg 120
 acactctgaa aggagagctc tgctgggaga atcaaataaa tttgttgagg acaagggttg 180
 gtatgccctg tctcaggac taaaggcat tgcattgtgt ggtgagacc ttgagcagag 240
 ggaggctggg tctaccatgg atgttggtgc tgcacaaaca aaagcaattg ctgagaagat 300
 caaggactgg 310

<210> 14
 <211> 297
 <212> DNA
 <213> Zea mays

<400> 14

gtcaagagcc agctgcgcca agagttccat gttgctgctc agaacttctg ggtgaagaag 60
 ggagggtgctt tcaactggtga agtcagtgt gagatgctcg tcaaccttgg tgttccctgg 120
 gtcattcttg gacactctga aaggagagct ctgctgggag aatcaaata atttgttgga 180
 gacaagggtg cgtatgccct gtctcaggga ctaaagggtca ttgcatgtgt tggtagagacc 240
 cttgagcaga gggaggctgg gtctaccatg gatgttggtg ctgcacaaac aaaagca 297

<210> 15
 <211> 305
 <212> DNA
 <213> Zea mays

<220>
 <221> unsure
 <222> (1) .. (305)

<223> unsure at all n locations

<400> 15

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gagctctgct gggagaatca aatgaatttg ttggagacaa ggttgcgat gccctgtctc 60
agggactaaa ggtcattgca tgtgttggtg agacacttga gcagaggag gctgggtcta 120
ccatggaggt tgttctgca caaacaaaag caattgctga gaagatcaag gactggagca 180
acgtagttgt tgcctatgaa ccagtttggg ctattggaac tggtaaagtt gccaccccag 240
ctcaggctca ggaagtgcac gcctccctga gggattggct anagaccaac gtcagccctg 300
aggtt                                             305
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<210> 16

<211> 321

<212> DNA

<213> Zea mays

<400> 16

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cccacgcgtc cggtaaagtt gccaccccag ctcaggctca ggaagtgcac gcctccctga 60
gggattggct aaagaccaat gccagccctg aggttgctga atctactagg atcatctacg 120
gaggctctgt aactgctgcg aactgcaaag agctagcagc acagcctgat gtcgatggtt 180
ttcttgtcgg tggagcttct ttgaagcctg agttcatcga catcatcaac gcggccaccg 240
tgaagtccgc ttaagatgct acgctgaaga cgaacatact ttttttttgc tcaactgtgc 300
tatgtaagct agtagctttt g                                             321
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<210> 17

<211> 285

<212> DNA

<213> Zea mays

<400> 17

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tggttttctt gtcggtggag cttctttgaa gcctgagttc atcgacatca tcaacgcggc 120
caccgtgaag tccgcttaag atgctacgct gaagacgaac atactttttt tttgctcaac 180
tgtgctatgt aagctagtag cttttgcgca ggagcagaga ctgttttgcc tgccccaac 240
ttctagcttg agcttgctaa taatgtttac ctctggacgt atcaa                     285
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<210> 18
 <211> 338
 <212> DNA
 <213> Zea mays

 <400> 18

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 atctaatacga cacctcacccg agatggggccg caagttcttc gtcggtggca actggaaatg 120
 caatggaacc acagatcagg tcgagaagat tgtcaaaacc ctgaatgaag gacagggttcc 180
 cccttcagat gttgtggagg tcgttgctcag ccctccttat gtcttccttc ctgtggtcaa 240
 gagccagctg cgccaagagt tccatgttgc tgctcagaac tgctgggtga agaaggagg 300
 tgctttcact ggtgaagtca gtgctgagat gctcgtca 338

<210> 19
 <211> 298
 <212> DNA
 <213> Zea mays

 <400> 19

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 tctgaaagga gagctctgct gggagaatca aatgaatttg ttggagacaa gggtgcgtat 120
 gccctgtctc agggactaaa ggtcattgca tgtgttggtg agacccttga gcagagggag 180
 gctgggtcta ccatggatgt tgttgctgca caaacaaaag caattgctga gaagatcaag 240
 gactggagca acgtagttgt tgcctatgaa ccagtttggg ctattggaac tggtaaag 298

<210> 20
 <211> 283
 <212> DNA
 <213> Zea mays

 <400> 20

 gtcagtgtctg agatgctcgt caaccttggg gttccctggg tcattcttgg acactctgaa 60
 aggagagctc tgctgggaga atcaaataaa tttgttgagg acaagggtgc gtatgccctg 120
 tctcaggagac taaaggatcat tgcattgtgtt ggtgagaccc ttgagcagag ggaggctggg 180
 tctaccatgg atgttggtgc tgcacaaaca aaagcaattg ctgagaagat caaggactgg 240

agcaacgtag ttgttgcta tgaaccagtt tgggctattg gaa 283

<210> 21
 <211> 290
 <212> DNA
 <213> Zea mays

<400> 21

ccttgagcag agggaggctg ggtctacat ggatgttggt gctgcacaaa caaaagcaat 60
 tgctgagaag atcaaggact ggagcaacgt agttgttgcc tatgaaccag tttgggctat 120
 tggaactggt aaagttgcc aaccagctca ggctcaggaa gtgcacgcct ccctgaggga 180
 ttggctaaag accaatgcc gccctgaggt tgctgaatct actaggatca tctacggagg 240
 ctctgtaact gctgcgaact gcaaagagct agcagcacag cctgatgtcg 290

<210> 22
 <211> 290
 <212> DNA
 <213> Zea mays

<400> 22

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 tgagatgctc gtcaaccttg gtgttccttg ggtcattctt ggacactctg aaaggagagc 120
 tctgctggga gaatcaaatg aatttgttg agacaagggt gcgtatgcc tgtctcaggg 180
 actaaaggct attgcatgtg ttggtgagac ccttgagcag agggaggctg ggtctacat 240
 ggatgttggt gctgcacaaa caaaagcaat tgctgagaag atcaaggact 290

<210> 23
 <211> 276
 <212> DNA
 <213> Zea mays

<400> 23

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 gttgcgtatg ccctgtctca gggactaaag gtcattgcat gtgttggtga gacccttgag 120
 cagagggagg ctgggtctac catggatgtt gttgctgcac aaacaaaagc aattgctgag 180
 aagatcaagg actggagcaa cgtagttgtt gcctatgaac cagtttgggc tattggaact 240

ggtaaagttg ccaccccagc tcaggctcag gaagtg 276

<210> 24
 <211> 316
 <212> DNA
 <213> Zea mays

<400> 24

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 ggactggagc aacgtagttg ttgcctatga accagtttgg gctattggaa ctggtaaagt 120
 tgccacccca gctcaggctc aggaagtgca cgcctccctg agggattggc taaagaccaa 180
 tgccagccct gaggttgctg aatctactag gatcatctac ggaggctctg taactgctgc 240
 gaactgcaaa gagctagcag cacagcctga tgcgatggg tttcttgctg gtggagcttc 300
 tttgaagcct gagttc 316

<210> 25
 <211> 313
 <212> DNA
 <213> Zea mays

<220>
 <221> unsure
 <222> (1)..(313)
 <223> unsure at all n locations

<400> 25

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 tgcgatggg tttcttgctg gtggagcttc tttgaagcct gagttcatcg acatcatcaa 180
 cgcggccacc gtgaagtccg cttaatgatgc tacgctgaag acgaacatac tttttttttg 240
 ctcaactgtg ctatgtaagc tagtagcttt tgcgcaggag cagagactgt tttgctgccc 300
 cnaacttcta gct 313

<210> 26
 <211> 277
 <212> DNA
 <213> Zea mays

<400> 26

gctgctcaga actgctgggt gaagaaggga ggtgctttca ctggtgaagt cagtgctgag 60
atgctcgtca accttggtgt tccctgggtc attcttggac actctgaaag gagagctctg 120
ctgggagaat caaatgaatt tgttgagac aaggttgcgt atgccctgtc tcagggacta 180
aaggtcattg catgtgttgg tgagaccctt gagcagaggg aggctgggtc taccatggat 240
gttggtgctg cacaaacaaa agcaattgct gagaaga 277

<210> 27
<211> 268
<212> DNA
<213> Zea mays

<400> 27

agggactaaa ggtcattgca tgtgttggtg agacacttga gcagaggag gctgggtcta 60
ccatggaggt tgttgctgca caaacaaaag caattgctga gaagatcaag gactggagca 120
acgtattgtt gcctatgaac cagtttgggc tattggaact ggtaaagttg ccaccccagc 180
tcaggctcag gaagtgcacg cctccctgag ggattggcta aagaccaacg tcagccctga 240
ggttgctgaa tctactagga tcatttac 268

<210> 28
<211> 307
<212> DNA
<213> Zea mays

<400> 28

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tcattgcatg tgttggtgag acccttgagg agaggaggc tggttcaacc atggatgttg 120
ttgctgcaca aacaaaagca attgctgaga agatcaagga ctggagcaac gttgttcttg 180
cctatgaacc agtctgggct attggaactg gcaaagtcgc caccacagct caggctcagg 240
aagtgcacgc ctccctgagg gattgggtaa agatcaatgt cagccctgag gtctctgaat 300
ctacaag 307

<210> 29
<211> 285
<212> DNA
<213> Zea mays

<400> 29

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gcgtatgccc tgtctcaggg actaaaggtc attgcatgtg ttggtgagac ccttgagcag 120

agggaggctg ggtctaccat ggatgttggt cgtgcacaaa caaaagcaat tgctgagaag 180

atcaaggact ggagcaacgt agttgttgcc tatgaaccag tttgggctat tggaactggg 240

aaagttgccca cccagctca ggctcaggaa gtgcacgcct ccctg 285

<210> 30

<211> 337

<212> DNA

<213> Zea mays

<400> 30

aaaggtcatt gcatgtgttg gtgagaccct tgagcagagg gaggtgggt ctaccatgga 60

tggtgttgct gcacaaacaa aagcaattgc tgagaagatc aaggactgga gcaacgtagt 120

tggtgcctat gaaccagttt gggctattgg aactggtaaa gttgccaccc cagctcaggc 180

tcaggaagtg cacgcctccc tgagggattg gctaaagacc aatgccagcc ctgaggttgc 240

tgaatctact aggatcatct acggaggctc tgtaactgct gcgaactgca aagagctagc 300

agcacagcct gatgtcgatg gttttcttgt cggtgga 337

<210> 31

<211> 302

<212> DNA

<213> Zea mays

<220>

<221> unsure

<222> (1)..(302)

<223> unsure at all n locations

<400> 31

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cggtggcaac tggaaatgca atggaaccac agatcaggtc gagaagattg tcaaaacact 120

gaatgaagga caggttcccc cttcagatgt tgtggaggtc gttgtcagcc ctccttatgt 180

cttccttcct gtggtcaaga gccagctgcg ccaagagttc catgttgctg ctcagaactg 240

ctgggtgaag aaggagggtg ctttctactgg tgaagtcagt gctgagatgc tctgtcaacct 300
tg 302

<210> 32
<211> 256
<212> DNA
<213> Zea mays

<400> 32

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ctttctactgg tgaagtcagt gctgagatgc tctgtcaacct tgggtgttccc tgggtcattc 120
ttggacactc tgaaaggaga gctctgctgg gagaatcaaa tgaatttggt ggagacaagg 180
ttgcgtatgc cctgtctcag ggactaaagg tcattgcatg tgttggtgag acccttgagc 240
agagggagggc tgggtc 256

<210> 33
<211> 268
<212> DNA
<213> Zea mays

<400> 33

cccacgcgtc cgggtgttggt gagacccttg agcagagggga ggctgggtct accatggatg 60
ttgttgctgc acaaacaaaa gcaattgctg agaagatcaa ggactggagc aacgtagttg 120
ttgcctatga accagtttgg gctattggaa ctggtaaagt tgccacccca gctcaggctc 180
aggaagtgca cgctccctg agggattggc taaagaccaa tgccagccct gaggttgctg 240
aatctactag gatcatctac ggaggctc 268

<210> 34
<211> 254
<212> DNA
<213> Zea mays

<400> 34

ccatgttgct gctcagaact gctgggtgaa gaaggagggt gctttctactg gtgaagtcag 60
tgctgagatg ctcgtcaacc ttgggtgttcc ctgggtcatt cttggacact ctgaaaggag 120
agctctgctg ggagaatcaa atgaatttgt tggagacaag gttgcgtatg ccctgtctca 180

gggactaaag gtcattgcat gtgttggtga gacccttgag cagagggagg ctgggtctac 240
catggatggt gttg 254

<210> 35
<211> 341
<212> DNA
<213> Zea mays

<400> 35

cgccgtccga agctccgcac cccaatctaa tcgacacctc accgagatgg gccgcaagtt 60
cttcgtcggg ggcaactgga aatgcaatgg aaccacagat caggtcgaga agattgtcaa 120
aacctgaat gaaggacagg ttcccccttc agatgttggt gaggtcgttg tcagccctcc 180
ttatgtcttc cttcctgtgg tcaagagcca gctgcgcca gagttccatg ttgctgctca 240
gaactgctgg gtgaagaagg gaggtgcttt cactgggtgaa gtcagtgtg agatgctcgt 300
caaccttggt gttccctggg tcattcttga cactctgaaa g 341

<210> 36
<211> 251
<212> DNA
<213> Zea mays

<400> 36

ttcggcacga gaaagagcta gcagcacagc ctgatgtcga tggttttctt gtcgggtggag 60
cttctttgaa gcttgagttc atcgacatca tcaacgcggc caccgtgaag tccgcttaag 120
atgctacgct gaagacgaac atactttttt tttgctcaac tgtgctatgt aagctagtag 180
cttttgcgca ggagcagaga ctgttttgcc tgcccccaac ttctagcttg agcttgctaa 240
taatgtttac c 251

<210> 37
<211> 246
<212> DNA
<213> Zea mays

<400> 37

tggctattgg aactggtaaa gttgccaccc cagctcaggc tcaggaagtg cagcctccc 60
tgagggattg gctaaagacc aatgccagcc ctgaggttgc tgaatctact aggatcatct 120

acggaggctc tgtaactgct gcgaactgca aagagctagc agcacagcct gatgtcgatg 180
gttttcttgt cggtggagct tctttgaagc ctgagttcat cgacatcatc aacgcggcca 240
ccgtga 246

<210> 38
<211> 270
<212> DNA
<213> Zea mays

<400> 38

ggtgaagtca gtgctgagat gctcgtcaac cttggtgttc cctgggtcat tcttggacac 60
tctgaaagga gagctctgct gggagaatca aatgaatttg ttggagacaa ggttgcgtat 120
gccctgtctc agggactaaa ggtcattgca tgtgttggtg agacccttga gcagaggag 180
gctgggtcta ccatggatgt tgttctgca caaacaaaag caattgctga gaagatcagg 240
actggagcac gtattgttgc ctatgaacca 270

<210> 39
<211> 277
<212> DNA
<213> Zea mays

<400> 39

cgcagatcag gttgagaaga ttgtcaaac cctgaatgaa ggaaatgttc cctcttcaga 60
tggtgttgag gttgttgtca gtccctctta tgtgttcctc ccggtgggtca agagccagct 120
gcgtcaagag ttccaagttg ctgctcagaa ctgctgggtg aagaaggag gtgcattcac 180
tggtgaaatt agtgctgaga tgctcgtcaa ccttggcggt ccttgggtca ttcttggaca 240
ctctgaaagg agagctctgc tgggagaatc aaatgag 277

<210> 40
<211> 261
<212> DNA
<213> Zea mays

<400> 40

cccacgcgtc cggaactgct ggggtgaagaa gggaggtgct ttcactggtg aagtcagtgc 60
tgagatgctc gtcaaccttg gtgttccttg ggtcattctt ggacactctg aaaggagagc 120

tctgctggga gaatcaaagtg aatttggttg agacaagggtt gcgtatgcc tgtctcaggg 180
actaaaggctc attgcatgtg ttggtgagac ccttgagcag agggaggctg ggtctaccat 240
ggatgttggtt gctgcacaaa c 261

<210> 41
<211> 276
<212> DNA
<213> Zea mays

<400> 41

tgaagggagg tgcattcacc ggtgaaatta gtgctgagat gctcgtcaac cttggcgcttc 60
cctgggtcat tcttgacac tctgaaagga gagctctgct gggagaatca aatgagtttg 120
ttggagacaa ggttgctttt gctctgtctc agggactaaa ggtcattgca tgtgttggtg 180
agacccttga ggagaggag gctgggtcaa ccatggatgt tgttgctgca caaacaaaag 240
caattgctga gaagatcaag gactggagca acgttg 276

<210> 42
<211> 326
<212> DNA
<213> Zea mays

<400> 42

ccaatctaga agcacacctc tccctctctc tctcttcgcc gtccgaagct ccgcacccca 60
atctaatacga cacctcaccg agatgggccg caagtctgct gtcggtggca actggaaatg 120
caatggaacc acagatcagg tcgagaagat tgtcaaaacc ctgaatgaag gacaggttcc 180
cccttcaatg ttgtggaggt cgttgctcgc cctccttatg tcttccttcc tgtgggtcaag 240
agccagctgc gccaaagatt ccatgttgct gctcagaact gctgggtgaa gaagggatgt 300
gctttcactg gtgaagtcac gctgag 326

<210> 43
<211> 244
<212> DNA
<213> Zea mays

<400> 43

aactgcaaag agctagcagc acagcctgat gtcgatgggtt ttctgtcgg tggagcttct 60

ttgaagcctg agttcatcga catcatcaac gcggccaccg tgaagtcgc ttaagatgct 120
acgctgaaga cgaacatact ttttttttgc tcaactgtgc tatgtaagct agtagctttt 180
gcgcaggagc agagactggt ttgcctgccc ccaacttcta gcttgagctt gctaataatg 240
ttta 244

<210> 44
<211> 258
<212> DNA
<213> Zea mays

<400> 44

cccacgcgtc cgatgcaatg gaaccacaga tcaggtcgag aagattgtca aaaccctgaa 60
tgaaggacag gttccccctt cagatgttgt cgaggtcggt gtcagccctc cttatgtctt 120
ccttcctgtg gtcaagagcc agctgcgcca agagttccat gttgctgctc agaactgctg 180
ggatgaagaag ggaggtgctt tcaactggta agtcagtgtc gagatgctcg tcaaccttgg 240
tgttccctgg gtcattct 258

<210> 45
<211> 265
<212> DNA
<213> Zea mays

<400> 45

gaagctccgc acccaatcta atcgacacct caccgagatg ggccgcaagt tcttcgtcgg 60
tggcaactgg aatgcaatg gaaccacaga tcaggtcgag aagattgtca aaaccctgaa 120
tgaaggacag gttccccctt acaatgttgt tgaggtcggt gtcagccctc cttatgtctt 180
ccttcctgtg gtcaagagcc agctgcgcca agagttccat gttgctgctc agaactgctg 240
ggatgaagaag ggaggtgctt tcaact 265

<210> 46
<211> 336
<212> DNA
<213> Zea mays

<400> 46

aaggttgctg atgccctgtc tcagggacta aaggtcattg catgtgttgg tgagaccctt 60

gagcagaggg aggctgggtc taccatggat gttgttgctg cacaacaaa agcaattgct 120
gagaagatca aggactggag caacgtagtt gttgcctatg aaccagtttg ggctattgga 180
actggtaaag ttgccacccc agctcaggct caggaagtgc acgcctccct gagggattgg 240
ctaaagacca atgccagccc tgaggttgct gaatctacta ggatcatcta cggaggctct 300
gtaactgctg cgaactgcaa agagctagca gcacag 336

<210> 47
<211> 349
<212> DNA
<213> Zea mays

<400> 47

ctctccctct ctctctcttc gccgtccgaa gctccgcacc ccaatctaata cgacacctca 60
ccgagatggg ccgcaagttc ttcgtcgggt gcaactggaa atgcaatgga accacagatc 120
aggctcgagaa gattgtcaaa accctgaatg aaggacaggt tcccccttca gatgttgtgg 180
aggctggttg cagccctcct tatgtcttcc ttcctgtggt caagagccag ctgcgccaag 240
agttccatgt tgctgctcag aactgctggg tgaagaaggg aggtgctttc actggtgaag 300
tcagtgtga gatgctcgtc aaccttggtg ttcctgggt cattcttgg 349

<210> 48
<211> 317
<212> DNA
<213> Zea mays

<400> 48

ccacgcgtcc gaatcgacac ccggccgaca tgggcccga gttcttcgtt ggtggcaact 60
ggaaacgcaa tggaaccgca gaccaggttg agaagatcgt caaaaccctg aatgaaggaa 120
atgctccctc ttcagacgtc gtgcaggttg ttgtcagtc tcctcatgtg ttcctcccgg 180
tggtcaagag ccagctgcgc caagagttcc aagtcgctgc tcagaactgc tgggtgaaga 240
agggaggtgc attcactggg gaaaccagtg ctgagatgct cgtcaacctt ggcgtctccc 300
tgggtcactc ttggaca 317

<210> 49
<211> 263
<212> DNA

<213> Zea mays

<400> 49

ggaaatgcaa tggaaccgca gatcagggtg agaagattgt caaaaccctg aatgaaggaa 60

atgttccctc ttcagatggt gttgagggtg ttgtcagtc tcttatgtg ttcctcccg 120

tgggtcaagag ccagctgcgc caagagttcc aagttgctgc tcagaactgc tgggtgaaga 180

agggaggtgc attcactggt gaaattagt ctgagatgct cgtcaacctt ggcgttccct 240

gggtcattct tggacactct gaa 263

<210> 50

<211> 227

<212> DNA

<213> Zea mays

<400> 50

ctttgaagcc tgagttcatc gacatcatca acgcggccac cgtgaagtcc gcttaagatg 60

ctacgctgaa gacgaacata cttttttttt gctcaactgt gctatgtaag ctagtagctt 120

ttgcgcagga gcagagactg ttttgctgc ccccaacttc tagcttgagc ttgctaataa 180

tgtttacctc tggacgtatc aataatggtg cttatgtatc ccctttt 227

<210> 51

<211> 300

<212> DNA

<213> Zea mays

<400> 51

ccagtctggg ctattggaac tggcaaagtc gccacccag ctcaggctca ggaagtgcac 60

gcctccctga gggattgggt aaagatcaat gtcagccctg aggtctctga atctacaagg 120

atcatctatg gaggttcagt aactgctgcg aactgcaaag agctggcagc acagcctgat 180

gtcgatggtt tcttgtggg cgggtgcttct ttgaagcccg agttcatcga catcatcaac 240

gccgccaccg tgtgaagtcc gcttaagatg ttccaaccct tcaccctgtt gcggtgatgt 300

<210> 52

<211> 348

<212> DNA

<213> Zea mays

<400> 52

ccgtactcaa tctaatcgac acccggccga gattggacgc aatttcttcg ttggtggcaa 60

ctggaaatgc aatggaaccg cagatcaggt tgagtagatt gtcaagacgc tgaatgaagg 120

aaatgttccc tcttcagatg ttgttgaggt tgtggtcagt cctccttatg tgttcctccc 180

ggtgggtcaag agccagctgc tccaagagtt ctaagttgct gctcagaact gctgggtgaa 240

gaagggaggt gcattcactg gtgaaattag tgctgagatg ctcgtcaacc ttggcgggtcc 300

ctgggtcatt cttggacact ctgaaaggag agctctgtct gggagaat 348

<210> 53

<211> 264

<212> DNA

<213> Zea mays

<220>

<221> unsure

<222> (1)..(264)

<223> unsure at all n locations

<400> 53

gtgagaccct tgagcagagg gaggctgggt ctaccatgga tgttgtnct gcacaaacaa 60

nagcaattgc tgagaagatc aaggactgga gcaacgtagt tgttgcttat gaaccagttt 120

gggctattgg aactggtaaa gttgccaccc cagctcaggc tcaggaagtg cacgcctccc 180

tgagggattg gctaaagacc aatgccagcc ctgggggttg tnanctata ggntcntcta 240

nggggcttta aaaantgctg ggaa 264

<210> 54

<211> 225

<212> DNA

<213> Zea mays

<400> 54

gttcttcgtc ggtggcaact ggaaatgcaa tggaaccaca gatcaggtcg agaagattgt 60

caaaaccctg aatgaaggac aggttcccc ttcagatgtt gtcgaggtcg ttgtcagccc 120

tccttatgtc ttccttctg ttgtcaagag ccagctgcgc caagagttcc atgttgctgc 180

tcagaactgc tgggtgaaga agggaggtgc tttcactggt gaagt 225

<210> 55
 <211> 278
 <212> DNA
 <213> Zea mays

 <220>
 <221> unsure
 <222> (1)..(278)
 <223> unsure at all n locations

 <400> 55

 cttggcggttc cctgggtcat tcttggaacac tctgcaagga gagctctgct gggagtttcc 60
 tgtgagtttg ttggagacaa ggtttgtntt gctctgtctc agggactaaa ggtcattgca 120
 tgtgttggtg agacccttga gtttagggag gctgggtcaa ccatggatgt tgttgctgca 180
 caaacaaaag caattgctga gaagatcaag gactggagca acgttgttct tgcctatgaa 240
 ccagtctggg ctattggaac tggcaaagtc gccaccca 278

<210> 56
 <211> 317
 <212> DNA
 <213> Zea mays

 <400> 56

 gcccctcctc ctctccccc tccgtaccca atctaatacga caccggccg agatgggccc 60
 caagttcttc gttggtggca actggaaatg caatggaacc gcagatcagg ttgagaagat 120
 tgtcaaaacc ctgaatgaag gaaatgttcc ctcttcagat gttgttgagg tcgttgctcag 180
 tcctccttat gtgttcctcc cgggtgtcaa gagccagctg cgccaagagt tccaagttgc 240
 tgctcagaac tgctgggtga agaaggagg tgcattcact ggtgaaatta gtgctgaaat 300
 gctcgtcaac cttggcg 317

<210> 57
 <211> 291
 <212> DNA
 <213> Zea mays

 <400> 57

 ccgtacccaa tctaatacga acccgccga gatgggccc aagttcttcg ttggtggcaa 60
 ctggaaatgc aatggaaccg cagatcaggt tgagaagatt gtcaaaacc tgaatgaagg 120

aaatgttccc tcttcagatg ttgttgaggt cgttgtcagt cctccttatg tgttcctccc 180
 ggtggtcaag agccagctgc gccaaagagtt ccaagttgct gctcagaact gctgggtgaa 240
 gaagggaggt gcattcactg gtgaaattag tgctgaaatg ctcgtaacc t 291

<210> 58
 <211> 244
 <212> DNA
 <213> Zea mays

<400> 58

acggaggctc tgtaactgcc gcgaactgca aagagctagc agcacagcct gatgtcgatg 60
 ggtttcttgt cgggtggagct tctttgaagc ctgagttcat cgacatcatc aacgcggcca 120
 ccgtgaagtc cgcttaagat ggtacgcgtg agacgaacat actttttttt tgctcaactg 180
 tgctatgtaa gctagtagct tttggcgagc gacagagact ttgtttacct cccccaactt 240
 ttag 244

<210> 59
 <211> 254
 <212> DNA
 <213> Zea mays

<400> 59

ccatccgtac ccaatctaata cgacacccgg ccgagatggg ccgcaagtgc ttcggttggtg 60
 gcaactggaa atgcaatgga accacagatc aggttgagaa gattgtcaaa accctgaatg 120
 aaggaaatgt tcctcttcag atgttggtga ggtcggtgac agtcctcctt atgtgttctt 180
 cccggtgggc aagagccagc tgcgccaaga gttccaagtt gctgctcaga actgctgggt 240
 gaagaaggga ggtg 254

<210> 60
 <211> 222
 <212> DNA
 <213> Zea mays

<400> 60

tgctcgtaa ccttggtgtt ccctgggtca ttcttgagca ctctgaaagg agagctctgc 60
 tgggagaatc aaatgaattt gttggagaca aggttgcgta tgccctgtct cagggactaa 120

aggtcattgc atgtgttggt gagacccttg agcagaggga ggctgggtct accatggatg 180
 ttgttgctgc acaaacaaaa gcaattgctg agaagatcaa gg 222

<210> 61
 <211> 263
 <212> DNA
 <213> Zea mays

<400> 61

atcgacacct caccgagatg ggccgcaagt tcttcgctcg tggcaactgg aaatgcaatg 60
 gaaccacaga tcaggctgag aagattgtca aaaccctgaa tgaaggacag gttccccctt 120
 cagatgttgt ggaggctggt gtcagccctc cttatgtctt cttcctgtg gtcaagagcc 180
 agctgcgcca agagtccat gttgctgctc agaactgctg ggtgaagaag ggagggtgctt 240
 tcactggtga agtcagtgt gag 263

<210> 62
 <211> 292
 <212> DNA
 <213> Zea mays

<400> 62

gaagctccgc acccaatcta atcgacacct caccgagatg ggccgcaagt tcttcgctcg 60
 tggcaactgg aaatgcaatg gaaccacaga tcaggctgag aagattgtca aaaccctgaa 120
 tgaaggacag gttccccctt cagatgttgt tgaggctggt gtcagccctc ttatgtcttc 180
 cttcctgtgg tcaagagcca gctgcgccaa gagttccatg ttgctgctca gaactgctgg 240
 gtgaagaagg gaggtgcttt cactggtgaa gtcagtgtg agatgctcgt ca 292

<210> 63
 <211> 312
 <212> DNA
 <213> Zea mays

<400> 63

ctctccctct ctctctcttc gccgtccgaa gtcctgcacc ccaatcta atcgacacctca 60
 ccgagatggg ccgcaagtgc ttcgtcggtg gcaactggaa atgcaatgga accacagatc 120
 aggtcgagaa gattgtcaaa accctgaatg aaggacaggt tcccccttca gatgttggtg 180

aggtcgttgt cagccctcct tatgtcttcc ttcctgtggt caagagccag ctgcgccaag 240
 agttccatgt tgctgctcag aactgctggg tgaagaagg aggtgctttc actggtgaag 300
 tcagtgtctga ga 312

<210> 64
 <211> 259
 <212> DNA
 <213> Zea mays

<400> 64

atccaatcta gaagcacacc acaccctctc tctctcttcg ccgtccgaag caccgcacac 60
 caatctaatac gacacatcac cgagatgggc cgcaagttca tcgtcggttag caacaggaaa 120
 tgcaatggaa ccacagatca ggtcgagaag attgtcaaaa cactgaatga aggacaggtt 180
 ccccatcag atgttggtga ggacgttgtc agcccacctt atgtcttctt tctgtgggtc 240
 aagagccagc agcgccaag 259

<210> 65
 <211> 295
 <212> DNA
 <213> Zea mays

<400> 65

aagcgccctt cctcctctcc cccatccgta cccaatctaa tcgacaccgc gccgagatgg 60
 gccgcaagtt cttcgttggt ggcaactgga aatgcaatgg aaccgcagat cagggttgaga 120
 agattgtcaa aacctgaat gaaggaaatg ttccctcttc agatgttggt gaggttggtg 180
 tcagtctctc ttatgtgttc ctcccgttg tcaagagcca gctgcgcaa gagttccaag 240
 ttgctgtctc gaactgctgg gtgaagaagg gaggtgcatt cactggtgaa attag 295

<210> 66
 <211> 320
 <212> DNA
 <213> Zea mays

<400> 66

aatccaatc tagaagcacc cctctccctc tctctctctt cgccgtccga agctccgcac 60
 cccaatctaa tcgacacctc accgagatgg gccgcaagtt cttcgctcgtt ggcaactgga 120

aatgcaatgg aaccacagat caggctcgaga agattgtcaa aaccctgaat gaaggacagg 180
 ttcccccttc agatgttggtg gaggtcggtg tcagccctcc ttatgtcttc cttcctgtgg 240
 tcaagagcca gctgcgcca gagttccatg ttgctgctca gaactgctgg gtgaagaagg 300
 gaggtgcttt cactggtgaa 320

<210> 67
 <211> 207
 <212> DNA
 <213> Zea mays

<400> 67

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 aagttgccac cccagctcag gctcaggaag tgcacgcctc cctgagggat tggctaaaga 120
 ccaatgccag ccctgagggt gctgaatcta ctaggatcat ctacggaggc tctgtaactg 180
 ctgcgaactg caaagagcta gcagcac 207

<210> 68
 <211> 265
 <212> DNA
 <213> Zea mays

<400> 68

aatcgacacc cggccgagat gggcgcaagt tcttcggttg tggcaactgg aaatgcaatg 60
 gaaccgcaga tcaggttgag aagattgtca aaaccctgaa tgaaggaaat gttccctctt 120
 cagatgttggt tgaggttggt gtcagtcctc cttatgtttt cctcccgggtg gtcaagagcc 180
 agctgcgcca agagttccaa gttgctgctc agaactgctg ggtgaagaag ggaggtgcat 240
 tcactggtga aattagtgtc gagat 265

<210> 69
 <211> 319
 <212> DNA
 <213> Zea mays

<400> 69

cggacgcgtg ggtagaagca cccctctccc tctctctctc ttcgccgtcc gaagctccgc 60
 accccaatct aatcgacacc tcaccgagat gggccgcaag ttactcgtcg gtggcaactg 120

gaaatgcaat ggaaccacag atcaggtcga gaagattgtc aaaaccctga atgaaggaca 180
 ggttccccct tcagatgttg tggaggtcgt tgtcagccct cttatgtct tccttcctgt 240
 ggtcaagagc cagctgcgcc aagagttcca tgttgctgct cagaactgct ggggtaagaa 300
 gggaggtgct ttcactggt 319

<210> 70
 <211> 316
 <212> DNA
 <213> Zea mays

<400> 70

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 agctccgcac ccaatcta atcgacacctca ccgagatggg ccgcaagttc ttctgtcggtg 120
 gcaactggaa atgcaatgga accacagatc aggtcgagaa gattgtcaaa accctgaatg 180
 aaggacaggt tcccccttca gatgttgctg aggtcggtgt cagccctcct tatgtcttcc 240
 ttctgtggt caagagccag ctgcgccaa agttccatgt tgctgctcag aactgctggg 300
 tgaagaaggg aggtgc 316

<210> 71
 <211> 276
 <212> DNA
 <213> Zea mays

<400> 71

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 caagttcttc gtcggtggca actggaaatg caatggaacc acagatcagg tcgagaagat 120
 tgtcaaaacc ctgaatgaag gacaggttcc cccttcagat gttgtcgagg tcgttgctcag 180
 ccctccttat gtcttccttc ctgtggtcaa gagccagctg cgccaagagt tccatgttgc 240
 tgctcagaac tgctgggtga agaaggaggg tgcttt 276

<210> 72
 <211> 204
 <212> DNA
 <213> Zea mays

<400> 72

gaagatcaag gactggagca acgtattgtt gcctatgaac cagtttgggc tattggaact 60
 ggtaaagttg ccaccccagc tcaggctcag gaagtgcacg cctccctgag ggattggcta 120
 aagaccaatg ccagccctga ggttgctgaa tctactagga tcctctacgg aggctctgta 180
 actgctgcga actgcaaaga gcta 204

<210> 73
 <211> 342
 <212> DNA
 <213> Zea mays

<220>
 <221> unsure
 <222> (1)..(342)
 <223> unsure at all n locations

<400> 73

ctagaagccc cctctccctc cctccctctc tctctctctc ttccgctcc gaagctccgc 60
 acccaatcta atccacacct cagccagatg ngccgcaagt tcttcgctcg tggcaactgg 120
 aaatgcaatg gaaccacaga tcaggctcag aagattgtca gaaccctgaa tgaaggacag 180
 gttccccctt cagatgttgt cgaggctcgt gtcagccctc cttatgtctt ccttcctgtg 240
 gtcaagagcc agctgcgcca agagttccat gttgctgctc agaactgctg ggtgaagaat 300
 ggaggtgctt tcaactggtga agcagtgtg agatgctcgt ca 342

<210> 74
 <211> 313
 <212> DNA
 <213> Zea mays

<220>
 <221> unsure
 <222> (1)..(313)
 <223> unsure at all n locations

<400> 74

aatctagaag ctccccctc cctccctccc tctctctctc tctcttcgce gtccgaagct 60
 ccgcacccaa tctaactgac acctcaccga gatgggccc aagttcttcg tcggtggcaa 120
 ctggaaatgc aatggaacca cagatcaggt cgagaagatt gtcaaaaccc tgaatgaagg 180
 acaggttccc ccttcagatg ttgtcgaggt cgttgctcag cctccttatg tcttccttcc 240

tgtggtcaag agccagctgc gccaaagagtt ccatgttgct gctcagaact gctgggtgaa 300
gaagggangt gct 313

<210> 75
<211> 277
<212> DNA
<213> Zea mays

<400> 75

atttagaagc gccctcctc ctctccccc tccgtaccca atctaatacga caccggccg 60
agatgggccc caagttcttc gttggtggca actggaaatg caatggaacc gcagatcagg 120
ttgagaagat tgtcaaaacc ctgaatgaag gaaatgttcc ctcttcagat gttgttgagg 180
ttgttgctcag tctccttat gtgttcctcc cgggtggtaa gagccagctg cgccaagagt 240
tccaagttgc tgctcagaac tgctgggtga agaaggg 277

<210> 76
<211> 282
<212> DNA
<213> Zea mays

<400> 76

atttagaagc gccctcctc ctctccccc tccgtaccca atctaatacga caccggccg 60
agatgggccc caagttcttc gttggtggca actggaaatg caatggaacc gcagatcagg 120
ttgagaagat tgtcaaaacc ctgattgaag gaaatgttcc ctctacagat gttgttgagg 180
tcgttgctcag tctccttat gtgttcctcc cgggtggtaa gagccagctg cgccaagagt 240
tccaagttgc tgctcagaac tgctgggtga agaagggagg tg 282

<210> 77
<211> 313
<212> DNA
<213> Zea mays

<400> 77

acaatttaga agcgaccctc ctctctctcc ccatccgtac ccaatctaata cgacacccgg 60
ccgagatggg ccgcaagttc ttcgttggtg gcaactggaa atgcaatgga accgcagatc 120
aggttgagaa gattgtcaaa accctgaatg aaggaaatgt tccctcttca gatgttggtg 180

aggttgttgt cagtcctcct tatgtgttcc tcccgggtgg caagagccag ctgcgccaag 240
 agttccaagt tgctgctcag aactgctggg tgaagaagg aggtgcatta cactgggtgaa 300
 attagtgtctg aga 313

<210> 78
 <211> 307
 <212> DNA
 <213> Zea mays

<400> 78

ccaatctaga agtccccctc ttcgtccctc cctctctctc tctctcttcg ccgtccgaag 60
 ctccgcaccc aatctaatac acacctcacc gagatggggc gcaagttctt cgtcgggtggc 120
 aactggaaat gcaatggaac cacagatcag gtcgagaaga ttgtcaaaac cctgaatgaa 180
 ggacagggttc ccccttcaga tgttgctgag gtcgttgtca gccctcctta tgtcttcctt 240
 cctgtgggtca agagccagct gcgccaagag ttccatgttg ctgctcagaa ctgctgggtg 300
 aagaagg 307

<210> 79
 <211> 299
 <212> DNA
 <213> Zea mays

<400> 79

aatccaatct agaagcacc ctctccctct ctctctcttc gccgtccgaa gtcctgcacc 60
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 atgcaatgga accacagatc aggtcgagaa gattgtcaaa accctgaatg aaggacaggt 180
 tcccccttca gatgttggtg aggtcgttgt cagccctcct tatgtcttcc ttctgtgggt 240
 caagagccag ctgcgccaag agttccatgt tgctgctcag aactgctggg tgaagaagg 299

<210> 80
 <211> 266
 <212> DNA
 <213> Zea mays

<400> 80

agcgcctcct ctcctctcct ccacccgtac ccaatctaata cgacacccgg ccgagatggg 60

ccgcaagttc ttcgttggtg gcaactggaa atgcaatgga accgcagatc aggttgagaa 120
gattgtcaaa accctgaatg aaggaaatgt tccctcttca gatgttggtg aggttggtgt 180
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tgctgctcag aactgctggg tgaaga 266

<210> 81
<211> 318
<212> DNA
<213> Zea mays

<400> 81

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aaatgttccc tcttcagatg ttgttgaggt cgttgtcagt cctccttatg tgttctctcc 240
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gaagggaggt gcattcac 318

<210> 82
<211> 182
<212> DNA
<213> Zea mays

<400> 82

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tt 182

<210> 83
<211> 286
<212> DNA
<213> Zea mays

<400> 83

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 ggtgggtcaag agccagctgc gccaaagagtt ccaagttgct gctcagaact gctgggtgaa 240
 gaagggaggt gcatcactgg tgaaattatg ctgaatgctc gtcaac 286

<210> 84
 <211> 292
 <212> DNA
 <213> Zea mays
 <400> 84

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 gacaggttcc cccttcagat gttgtcgagg tcgttggtcag cctccttat gtcttcttc 240
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<210> 85
 <211> 277
 <212> DNA
 <213> Zea mays
 <400> 85

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<210> 86
 <211> 298
 <212> DNA
 <213> Zea mays
 <400> 86

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 cccttcagat gttgttgagg tcgttgtcag ccctccttat gtcttccttc ctgtggtcaa 240
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<210> 87
 <211> 272
 <212> DNA
 <213> Zea mays

<400> 87

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 ttgagaagat tgtcaaaacc ctgaatgaag gaaatgttcc ctcttcagat gttgttgagg 180
 ttgttgtcag tctccttat gtgttcctcc cggtggtcaa gagccagctg cgccaagagt 240
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<210> 88
 <211> 301
 <212> DNA
 <213> Zea mays

<220>
 <221> unsure
 <222> (1)..(301)
 <223> unsure at all n locations

<400> 88

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 ctgaatgaag gacaggttcc cccttcagat gttgtcgagg tcgttgtcag cactccttat 240
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<210> 89
 <211> 307

<212> DNA
 <213> Zea mays
 <400> 89
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 ttgtcaaaac cctgaatgaa ggacagggtc ccccttcaga tgttgtcgag gtcgttgtca 240
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<210> 90
 <211> 310
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<210> 91
 <211> 258
 <212> DNA
 <213> Zea mays
 <400> 91
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 gggtgagaag attgtcaaaa ccctgaatga aggaaatgtt ccctcttcag atgttggtga 180
 cggttggtgc agtcctcctt atgtgttctt cccggtgggc aagagccagc tgcgccaaga 240
 gttccaagtt gctgctca 258

<210> 92
 <211> 294
 <212> DNA
 <213> Zea mays

 <400> 92

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 ttcagatggt gtggaggtcg ttgtcagccc tccttatgtc ttccttcctg tgggtcaagag 240
 ccagctgcgc caagagttcc atgttgctgc tcagaactgc tgggtgaaga aggg 294

<210> 93
 <211> 271
 <212> DNA
 <213> Zea mays

 <400> 93

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 aatggaacca cagatcaggt cgagaagatt gtcaaaaccc tgaatgaagg acaggttccc 180
 ccttcagatg ttgtcgaggt cgttgtcagc cctccttatg tcttccttcc tgtggtcaag 240
 agccagctgc gccaaagatt ccatgttgct g 271

<210> 94
 <211> 274
 <212> DNA
 <213> Zea mays

 <400> 94

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 gttgaggttg ttgtcagtc tccttatgtg ttcctcccg tgggtcaagag ccagctgcgc 180
 caagagttcc aagttgctgc tcagaactgc tgggtgaaga agggatgtgc attcactggt 240
 gaaattagtg ctgagatgct cgtcaacctt ggcg 274

<210> 95
 <211> 306
 <212> DNA
 <213> Zea mays

<400> 95

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aactggaaat gcaatggaac cacagatcag gtcgagaaga ttgtcaaaac cctgaatgaa 180
ggacagggttc ccccttcaga tgttgctcag gtcggtgtca gccctcctta tgtcttcctt 240
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aagaag 306
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<210> 96
 <211> 280
 <212> DNA
 <213> Zea mays

<400> 96

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aggctcgagaa gattgtcaaa accctgaatg aaggacaggt tcccccttca gatgttggtg 180
aggctcgttg cagccctcct tatgtcttcc ttccgtgtgt caagagccag ctgcgccaag 240
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<210> 97
 <211> 280
 <212> DNA
 <213> Zea mays

<400> 97

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caatggaacc acagatcagg tcgagaagat tgtcaaaacc ctgaatgaag gacagggttc 180
cccttcagat gttgtggagg tcgttgctcag cctccttat gtcttccttc ctgtggtcaa 240
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gagccagctg cgccaagagt tccatgttgc ggctcagaac 280

<210> 98
 <211> 276
 <212> DNA
 <213> Zea mays

<400> 98

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 gaaatgcaat ggaaccacag atcaggtcga gaagattgtc aaaaccctga atgaaggaca 180
 gggtccccct tcagatgttg tggaggtcgt tgtcagccct ccttatgtct tccttcctgt 240
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<210> 99
 <211> 300
 <212> DNA
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<220>
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 <222> (1)..(300)
 <223> unsure at all n locations

<400> 99

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 cggtggcaac tggaaatgca atggaaccac agatcaggtc gagaagattg tcanaaccct 180
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<210> 100
 <211> 316
 <212> DNA
 <213> Zea mays

<400> 100

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 ttttgtttaa ccgtgcagtg ctatgtaagc tactaacttt gcgctgggtgc ggatgctgat 300
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<210> 101
 <211> 325
 <212> DNA
 <213> Zea mays

<400> 101

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 ttaagatgtt ccaacccttc accctgttgc ggtgatgtgc tgaagacaga tcagactatt 240
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 ttccctcccc cctagcttt ttgtg 325

<210> 102
 <211> 273
 <212> DNA
 <213> Zea mays

<400> 102

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 aatggaacca cagatcaggt cgagaagatt gtcaaaaccc tgaatgaagg acaggttccc 180
 ccttcagatg ttgtggaggt cgttgtcagc cctccttatg tcttccttcc tgtgggtcaag 240
 agccagctgc gccaaagatt ccatgttgct gcc 273

<210> 103
 <211> 281
 <212> DNA
 <213> Zea mays

<400> 103

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cccttcagat gttgtggagg tcgttggtcag ccctccttat gtcttccttc ctgtggtcaa 240

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<212> DNA

<213> Zea mays

<400> 104

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aactggaaat gcaatggaac cacagatcag gtcgagaaga ttgcctaaac cctgaatgaa 180

ggacagggtc ccccttcaga tggtgttgag gtcggtgtca gccctcctta tgtcttcctt 240

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<210> 105

<211> 278

<212> DNA

<213> Zea mays

<400> 105

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ttgagaagat tgtcaaaacc ctgaatgaag gaaatgttcc ctcttcagat gttgttgagg 180

ttgttggtcag tctccttat gtgttcctcc cggtggtcaa gagctagctg cgccaagagt 240

tccagttgct gctcagaact gctgggtgag aaggagat 278

<210> 106

<211> 216

<212> DNA

<213> Zea mays

<400> 106

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cacccaatc taatcgacac ctcaccgaga tgggccgcaa gttcttcgtc ggtggcaact 120

ggaaatgcaa tggaaccaca gatcaggctg ataagattgt caaaaccctg aatgaaggac 180

aggttcccc ttcagatggt gtggaggctg ttgtca 216

<210> 107

<211> 188

<212> DNA

<213> Zea mays

<400> 107

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tgaggttgct gaatctacta ggatcattta cggaggctct gtaactgccg cgaactgcaa 180

agagctag 188

<210> 108

<211> 204

<212> DNA

<213> Zea mays

<400> 108

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cgcaccccaa tctaatcgac acctcgccga gatgggccgc aagttcttcg tcggtggcaa 120

ctggaaatgc aatggaacca cagatcaggt cgagaagatt gtcaaaacct tgaatgaagg 180

acaggttccc ccttcagatg ttgt 204

<210> 109

<211> 278

<212> DNA

<213> Zea mays

<400> 109

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acccaatct aatcgacacc tcgccgagat gggccgcaag ttcttcgtcg gtggcaactg 120

gaaatgcaat ggaaccacag atcaggtcga gaagattgtc aaaaccctga atgaaggaca 180
 gggtccccct tcagatgttg tggaggtcgt tgtcagccct ccttatgtct tccttcctgt 240
 ggtcaagagc cagctgcgcc aagagttcca tgttgccg 278

<210> 110
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 <212> DNA
 <213> Zea mays

<400> 110

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 tggaaccaca gatcaggtcg agaagattgt caaaaccctg aatgaaggac aggttcccc 180
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 ccagctgcgc caagagttcc atgtt 265

<210> 111
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 <212> DNA
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<400> 111

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<210> 112
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 <212> DNA
 <213> Zea mays

<400> 112

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caatggaacc acagatcagg tcgagaagat tgtcaaaacc ctgaatgaag gacaggttcc 180
cccttcagat gttgtggagg tcgttgtcag ccctccttat gtcttccttc ctgtgggtcaa 240
gagccagctg cgccaagag 259

<210> 113
<211> 294
<212> DNA
<213> Zea mays

<400> 113

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<210> 114
<211> 237
<212> DNA
<213> Zea mays

<400> 114

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tcaggttgag aagattgtca aaaccctgaa tgaaggaaat gttccctctt cagatgttgt 180
tgaggttggt gtcagtcctc cttatgtgtt cctcccgggtg gtcaagagcc agctgcg 237

<210> 115
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<212> DNA
<213> Zea mays

<400> 115

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atctaatacga cacctcaccg agatggggccg caagttcttc gtcggtggca actggaaatg 120
caatggaacc acagatcagg tcgagaagat tgtcaaaacc ctgaatgaag gacaggttcc 180

cccttcagat gttgtggagg tcg 203

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 <212> DNA
 <213> Zea mays

<400> 116

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 tgcaatggaa ccacagatca ggtcgagaag attgtcaaaa ccctgaatga aggacagggtt 180
 ccccttcag atgttgtagg ggtcgttgtc agccctcctt atgtcttctt tcctgtgggc 240
 aagagccagc tgcgc 255

<210> 117
 <211> 209
 <212> DNA
 <213> Zea mays

<400> 117

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 aaacctgaa tgaaggacag gttccccctt cagatgttgt ggaggtcgtt gtcagccctc 180
 cttatgtctt ccttctgtg gtcaagagc 209

<210> 118
 <211> 216
 <212> DNA
 <213> Zea mays

<400> 118

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 ttgtcaaaac cctgaatgaa ggacagggtc ccccttcaga tgttgtaggag gtcgttgtca 180
 gccctcctta tgtcttctt cctgtggtca agagcc 216

<210> 119

<211> 160
 <212> DNA
 <213> Zea mays

 <400> 119

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 ccctgagggga ttggctaaag accaatgcca gccctgaggt 160

<210> 120
 <211> 296
 <212> DNA
 <213> Zea mays

 <400> 120

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 gttccaagtt gctgctcaga actgctgggt gaagaaggga ggtgcattca ctggtg 296

<210> 121
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 <212> DNA
 <213> Zea mays

 <400> 121

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 aatggaacca cagatcaggt cgagaagatt gtcaaaaccc tgaatgaagg acaggttccc 180
 ccttcagatg ttgtggaggt cgttgtcagc cctccttatg tcttccttcc tgtggtca 238

<210> 122
 <211> 303
 <212> DNA
 <213> Zea mays

 <400> 122

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 ttgcatgtgt tggtagagacc cttgagcaga gtgaggctgg gtctaccatg gatgttggtg 120
 ctgcacaaac aaaagcaatt gctgagaaga tcaaggactg gagcaacgta gttgttgcct 180
 atgaaccagt ttgggctatt ggaactggta aagttgccac ccagctcag ctcaggaagt 240
 gcacgcctac ctgagggatt ggctaaagac caatgccagc cctgaggatg ctgaatctac 300
 tag 303

<210> 123
 <211> 242
 <212> DNA
 <213> Zea mays

<400> 123

caatttagaa gcgccccctcc tcctctcccc catccgtacc caatctaate gacacccggc 60
 cgagatgggc cgcaagttct tcgttggtgg caactggaaa tgcaatggaa ccgcagatca 120
 gggtgagaag attgtcaaaa ccctgaatga cggaaatgtt ccctcttcag atgttggtga 180
 ggctggtgtc agtcctcctt atgtgttctt cccggtgggc aagagccagt gcgccaagag 240
 tt 242

<210> 124
 <211> 327
 <212> DNA
 <213> Zea mays

<400> 124

cacaaacctc accccaccta tattatcccg tgccccttgt ctttcttctt ccacaagcag 60
 cgaaatccaa tctagaagct cccctctccc tccctccctc tctctctctc tcttcgccgt 120
 ccgaagctcc gcacccaatc taatcgacac ctcaccgaga tgggccgcaa gttcttcgtc 180
 ggtggcaact ggaaatgcaa tgggaaccaca gatcaggctg agaagattgt caaaacctg 240
 aatgaaggac aggttcccc ttcagatgtt gtcgaggctg ttgtcagccc tccttatgtc 300
 ttccttctctg tggtaagag ccagctg 327

<210> 125
 <211> 297
 <212> DNA

<213> Zea mays
 <400> 125
 catccaatct agaagcacc ctctccctct ctctctcttc gccgtccgaa gtcctcgacc 60
 ccaatcta at cgacacctca ccgagatggg ccgcaagttc ttcgtcgggtg gcaactggaa 120
 atgcaatgga accacagatc aggtcgagaa gattgtcaaa accctgaatg aaggacaggt 180
 tcccccttca gatgttgtgg aggtcgttgt cagccctcct tatgtattcc ttcctgtggg 240
 caagagccag ctgcgccaag agttccatgt tgctgctcag aactgctggg tgaagaa 297

<210> 126
 <211> 253
 <212> DNA
 <213> Zea mays
 <400> 126
 ctaaagacca atgccatccc tgaggctgct gaatctgcta ggatcatcta cggaggctct 60
 gtaactgctg cgaactgcaa agagctagca gtacagcctg acgtcgatgg ttgtcttgcc 120
 gactgagctt ctttgaagcc tgagttcatc gacatcatca acgcggccac cgtgaagtcc 180
 gcttaagatg ctacgctgaa gactgaacat acttcttttt gctcaactgt gctatgtaag 240
 ctagtagctt ttg 253

<210> 127
 <211> 171
 <212> DNA
 <213> Zea mays
 <220>
 <221> unsure
 <222> (1)..(171)
 <223> unsure at all n locations
 <400> 127
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 ccaatcta at cgacacctca ccgagatggg ccgcaagttc ttcgtcgggtg gcaactggaa 120
 atgcaatgga accacagatc aggtcgagaa gattgtcaaa accctgatta a 171

<210> 128
 <211> 246

<212> DNA
 <213> Zea mays
 <400> 128
 gaagctcccc tctccctccc tccctctctc tctctctctt cgccgtccga agctccgcac 60
 ccaatctaata cgacacctca ccgagatggg ccgcaagttc ttcgtcggtg gcaactggaa 120
 atgcaatgga accacagatc aggtcgagaa gattgtcaaa accctgaatg aaggacaggt 180
 tcccccttca gatgttgctg aggtcgttgt cagccctcct aatgtcttcc ttctgtggt 240
 caagag 246

<210> 129
 <211> 240
 <212> DNA
 <213> Zea mays
 <400> 129
 cctccacaag cagcgaaatc caatctagaa gcacccctct cctctctctt ctcttcgccg 60
 tccgaagctc cgcaccccaa tctaatacgac acctcaccga gatggggccgc aagttcttcg 120
 tcggtggcaa ctggaaatgc aatggaacca cagatcaggt cgagaagatt gtcaaaaccc 180
 tgaatgaagg acaggttccc ccttcagatg ttgtggaggt cgttgtcagc cctccttatg 240

<210> 130
 <211> 212
 <212> DNA
 <213> Zea mays
 <400> 130
 atccaatcta gaagctcccc tctccctccc tccctctctc tctctctctt cgccgtccga 60
 agctccgcac ccaatctaata cgacacctca ccgagatggg ccgcaagttc ttcgtcggtg 120
 gcaactggaa atgcaatgga accacagatc aggtcgagaa gattgtcaaa accctgaatg 180
 aaggacaggt tcccccttca gatgttgctg ag 212

<210> 131
 <211> 151
 <212> DNA
 <213> Zea mays
 <220>

<400> 134

cagcgaaatc caatctagaa gcacccctct ccctctctct ctcttcgccg tccgaagctc 60
cgcacccaat ctaatcgaca cctcaccgag atggggccgca agttcttcgt cggtggcaac 120
tggaatatgca atggaaccac agatcaggtc 150

<210> 135

<211> 323

<212> DNA

<213> Zea mays

<400> 135

ggaactcggg gaggtgagca gaggtggtgg tgagtccgcc tttcgttttt ctgcagcagg 60
tcaaggggct gctgcggctg gacttcgccg tcgcagcgca gaactgctgg gtgcgcaagg 120
gcgggcgctt caccggcgag atcagtgctg agatgctggt aaacctgcag gtgcctgggt 180
cattttggga cattctgagc gcagagctct gttgggtgaa tccagtgatt ttgttgctga 240
taaagttgca tatgcactca ctcaaggtct caaggtaatt gcttg cattg gtgagaccct 300
tgagcagaga gaggcaggaa caa 323

<210> 136

<211> 214

<212> DNA

<213> Zea mays

<400> 136

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gccgtcgcag cgcagaactg ctgggtgcgc aagggcgggc ccttcaccgg cgagatcagt 120
gctgagatgc tggtaaacct gcaggtgccc tgggtcattt tgggacattc tgagcgcaga 180
gctctgttgg gtgaatccag tgattttgtt gctg 214

<210> 137

<211> 267

<212> DNA

<213> Zea mays

<400> 137

cacgaattca ccaaccaaac tccactgtct ccaactctcc atcgcgtctg ctacgcctct 60

cctgcaggac gaccaatggc ttccaggaag ttcttcgtgg gtggcaactg gaaatgcaac 120
 ggtactggcg aggacgtgaa gaagatcgtc accgtgctca acgaagccga ggtgccctct 180
 gaagacgtcg tcgaggtggg ggtgagtccg ccgttcgttt ttctgcagca ggtcaagggg 240
 ctgctgcggc tggacttcgc cgtcgca 267

<210> 138
 <211> 191
 <212> DNA
 <213> Zea mays

<400> 138

ggaactcggg gaggtgagca gaggtgggtg tgagtccgcc ttctgttttt ctgcagcagg 60
 tcaaggggct gctgcggctg gacttcgccg tcgcagcgca gaactgctgg gtgcgcaagg 120
 gcggcgccct caccggcgag atcagtgtg agatgctgg aaacctgcag gtgccctgag 180
 tcatttttggg a 191

<210> 139
 <211> 322
 <212> DNA
 <213> Zea mays

<220>
 <221> unsure
 <222> (1)..(322)
 <223> unsure at all n locations

<400> 139

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 cgaccaatgg cttccangaa gttcttcgtg ggtggcaact gganatgcaa cggactactggc 120
 gaggacgtga agaagatcgt caccgtgctc aacgaagccg aggtgccctc tgaagacgtc 180
 gtcgangtggt tgggtgagtcc gccgttcgtt tttctgcagc anngtcaagg gctgctgcgg 240
 ctagacttcg ccgtcgcagc gcagaactgc tgngtgcgca agggcngcgc cttcaccggc 300
 gagatcagtg ctgagatgct gg 322

<210> 140
 <211> 240
 <212> DNA

<213> Zea mays

<400> 140

caccaaccaa actccactgt ctccaactct ccatcgcgtc tgctacgcct ctctgcagg 60
acgaccaatg gcttccagga agttcttcgt ggggtggcaac tggaaatgca acggtactgg 120
cgaggacgtg aagaagatcg tcaccgtgct caaccaagcc gaggtgccct ctgaagacgt 180
cgtcgaggtg gtggtgagtc cgcctttcgt ttttctgcag caggtcaagg ggctgctgcg 240

<210> 141

<211> 284

<212> DNA

<213> Zea mays

<400> 141

accaaactcc actgtctcca actctccatc gcgtctgcta cgcctctcct gcaggacgac 60
caatggcttc caggaagtgc ctctggtggg gcaactggaa atgcaacggg actggcgagg 120
acgtgaagaa gatcgtcacc gtgctcaacc aagccgaggt gccctctgaa gacgtcgtcg 180
aggtggtggg gagtccgcct ttcgtttttc tgcagcaggt caaagggctg ctgcggctgg 240
acttcgccgt cgcagcgcag aactgctggg tgcgcaagga ggcg 284

<210> 142

<211> 166

<212> DNA

<213> Zea mays

<400> 142

cacgaattca ccaaccaaac tccactgtct ccaactctcc atcgcgctctg ctacgcctgt 60
cctgcaggac gaccaatggc ttccaggaag ttcttcgtgg gtggcaactg gaaatgcaac 120
gggtactggcg aggacgtgaa gaagatcgtc accgtgctca accaag 166

<210> 143

<211> 322

<212> DNA

<213> Zea mays

<400> 143

gcctcctctc ccgttcccc accaaccgca gcagcgagag cgagactgag aatggccgcg 60

gcgcgcgtcgt ccctcgtgtc ctcccatctc tctcgctcgc cgcacctccg ccgcgcggcg 120
cgccggccac tcccaccgtc ccacagcagc ttccgcgtcgc ctgctcgcac cgccgcgccc 180
agcgcgtcgt cgccatggct ggatccggca agttcttcgt cggaggcaac tggaagtgc 240
acgtaacaaa ggactccgtt agcaagcttg tctctgaact gaatgctgct accctcgaaa 300
ctgatgtaga tgttggtggtg gc 322

<210> 144
<211> 303
<212> DNA
<213> Zea mays

<400> 144

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gagaatggcc gcggcgccgt cgtccctcgt gtccctccat ctctctcgcc tcgccgacct 120
ccgcgcgcgc cggcgcgggc cactcccacc gtcccacagc agcttcgcgt cggctgctcg 180
ctccgcgcgc cccagcgcgt cgtcgccatg gctggatccg gcaagttctt cgtcggaggc 240
aactggaagt gcaacggaac aaaggactcc gttagcaagc ttgtctctga actgaatgct 300
gct 303

<210> 145
<211> 270
<212> DNA
<213> Zea mays

<400> 145

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gaatggccgc ggcgcgcgtc tccctcgtgt cctcccatct ctccgcctc gccgacctcc 120
gccgcgctgc ggcgcgggcc actcccaccg tcccacagca gcttcgcgtc ggcttctcgc 180
gccgcgcgc ccagcgcgtc gtccgcatgg ctggatccgg caagttcttc gtcggaggca 240
actggaagtg caacggaaca aaggactccg 270

<210> 146
<211> 301
<212> DNA
<213> Zea mays

<400> 146

ccgacgcgtg ggcgcgcct gtcctctcc agttctccc caccaaccgc agcagcgaga 60

cgagactgag aatggccgcg gcgcgctcgt cctcgccac ctcccatctc tcccgctcg 120

ccgacctccg ccgcgcggcg gcgcggccac tcccaccgtc ccacagcagc ttcgcgtcgg 180

cttctcgcgc cgccgcgccc agcgcgctcgt cgccatggct ggatccggca agttcttcgt 240

cggaggcaac tggaagtgca acgtaacaaa ggactccgtt agcaagcttg tctctgaact 300

g 301

<210> 147

<211> 282

<212> DNA

<213> Zea mays

<220>

<221> unsure

<222> (1)..(282)

<223> unsure at all n locations

<400> 147

cccacgcgtc cgcgcgcct gtcctctcc agttctccc caccaaccgc agcagcgaga 60

gagagactga gaatggccgc ggcgcgctcg tccctcgtgt cctcccatct ctcccgctc 120

gccgacctcc gccgcgcggc ggcgcggnc cactcccacc gtcccacagc agcttcgcgt 180

cggcttctcg cgccgcgcg cccagcgcgt cgtcgccatg gctggatccg gcaagttctt 240

cgtcggaggc aactggaagt gcaacgcaac aaaggactcc gt 282

<210> 148

<211> 273

<212> DNA

<213> Zea mays

<400> 148

tgcacctcgc cgctgctcc tctccagttc tccccacca accgcagcag cgagagcgag 60

actgagaatg gccgcggcgc cgtcgtccct cgtgtcctcc catctctccc gcctcgccga 120

cctccgccgc gcggcgcgcc ggccactccc accgtcccac agcagcttcg cgtcggcttc 180

tgcgcgcggc gcgcccagcg ggctcgtccc atggctggat ccggcaagtt ctctcgtcga 240

ggcaactgga agtgcaacgc aacaaaggac tcc 273

<210> 149
 <211> 275
 <212> DNA
 <213> Zea mays

 <400> 149

 acgaactgct accccctcgc ctgcacctcg ccgcctgctc ctctccagtt ctccccacc 60
 aaccgcagca gcgagagcga gactgagaat ggccgcggcg ccgtcgtccc tcgtgtcctc 120
 ccatctctcc cgctcgcgcg acctccgcgc cgcgggcgcg ccgagccact cccaccgtcc 180
 cacagcagct tcgcgtcggc ttctcgcgcc gccgcgcca gcgcgtcgtc gccatggctg 240
 gatccggcaa gttcttcgtc ggaggcaact ggaag 275

<210> 150
 <211> 300
 <212> DNA
 <213> Zea mays

 <400> 150

 tggacgaact gctacccctc cgctcgcgcc tcgcgcctg ctctctcca gttctcccc 60
 accaaccgca gcagcgagag cgagactgag aatggccgcg gcgcgtcgt ccctcgtgtc 120
 ctcccatctc tcccgctcgc ccgacctcgc ccgcgcggcg gcgcgggacc actcccacag 180
 tcccacagca gtttcgcgtc ggcttctcgc gccgcgcgc ccagcgcgtc gtcgccatgg 240
 ctggatccgg caagttcttc gtcggaggca actggaagtg cgtaagtga tgttctgctt 300

<210> 151
 <211> 255
 <212> DNA
 <213> Zea mays

 <400> 151

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 aaccgcagca gcgagagcga ggactgagaa tggccgcggc gccgtcgtcc ctcgtgtcct 120
 ccatctctc ccgcctcgcg gacctccgcc gcgcggcgcg gccggccact cccaccgtcc 180
 cacagcagct tcgcgtcggc ttctcgcgcc gccgcgcca gcggtcgtcg ccatggctgg 240
 atccggcaag ttctt 255

<210> 152
 <211> 283
 <212> DNA
 <213> Zea mays

 <400> 152

 cgaaccttgg cgtctgccct accaaccgca gcagcgacac tagaatggcc gcggcgccgt 60
 catccctcgc gtcctccac ctctcccaa tcgcgccggt gtccactccc gccgtccac 120
 atcagcttcg catcggtgc tccgcgcgc gcgccagcg catcgttgcc atggctggat 180
 ccggcaagtt cttcgtcga ggcaactgga agtgcaatgg acaaaggac tccattagca 240
 aacttgtctc tgaattgaat gctgctaccc ttgaaactga tgt 283

<210> 153
 <211> 282
 <212> DNA
 <213> Zea mays

 <400> 153

 ccgaaccttg gcgtctgcc taccaaccgc agcagcgaca ctagaatggc cgcggcgccg 60
 tcacccctcg cgtcctccca cctctccca atcgcgccggt gtccactcc cgcgtccca 120
 catcagcttc gcaccggctg ctccgcgcgc cgcgccagc gcacgttgcc catggctgga 180
 tccggcaagt tcttcgtcgg aggcaactgg aagtgaatg gaacaaagga ctccattagc 240
 aaacttgtct ctgaattgaa tgctgctacg cctgaaactg at 282

<210> 154
 <211> 235
 <212> DNA
 <213> Zea mays

 <400> 154

 cggctcgagc aaccgcagca gcgacactag aatggccgcg gcgccgtcat ccctcgcgtc 60
 ctcccagctc tcccgaatcg tcggggtgtc cactcccgcc gtcccacatc agcttcgcat 120
 cggctgctcc cgcgcgcgcg cccggcgcat cgttgccatg gctggatccg gcaagttctt 180
 cgtcggaggg ccctggacgt gcaatggaac aaaggactcc attaacaaac ttgtc 235

<210> 155
 <211> 273
 <212> DNA
 <213> Zea mays

 <400> 155

 gcttctagtc cctcgccctac cccgcccccg aacctggcgt ctgccctacc aaccgcagca 60
 gcgacactag aatggccgcg gcgccgtcat ccctcgcgtc ctcccacctc tcccgaatcg 120
 cggcgggtgtc cactcccgcc gtcccacatc agcttcgcat cgcttgctcc cgccgccgcg 180
 ccggggcgcat cgttgccatg gctggatccg gcaagttctt cgtcggaggc aactggaagt 240
 gcaatggaac aaaggctcca ttagcaaact tgt 273

<210> 156
 <211> 305
 <212> DNA
 <213> Zea mays

 <400> 156

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 aaaatatcag attggacaaa tattgtgttg gcatatgaac cagtttgggc tattggtacc 120
 ggcaaagttg caactcctgc tcaggctcag gaggttcatg atggtctgag aaagtggctc 180
 cactccaatg ttagccctgc agttgctgaa ttgacaagga taatttatgg agggctctgta 240
 aatggagcta actgcaaaga acttgcagct caaccagatg ttgatggatt ccttgttggt 300
 ggagc 305

<210> 157
 <211> 290
 <212> DNA
 <213> Zea mays

 <400> 157

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 gcaactcctg ctcaggctca ggaggttcat gatggtctga gaaagtggct ccactccaat 120
 gttagccctg cagttgctga attgacaagg ataatttatg gaggtctgt aaatggagct 180
 aactgcaaag aacttgcagc tcaaccagat gttgatggat tccttgttgg tggagcctca 240
 ttgaagcctg aattcgtgga catcatcaag tctgccactg tcaagtcttc 290

<210> 158
 <211> 309
 <212> DNA
 <213> Zea mays

 <400> 158

 aaacttttga agtatgtttt gagcagatga aggcttttgc agatagtatt tcaaactggg 60
 ccgatgttgt gattgcatat gagcctgttt gggctattgg aaccggaaaa gttgctactc 120
 ctgagcaagc ccaggaagtt catgctgctg tacgcgattg gttgacgacc aacatatcac 180
 ctgatgttgc ctctagcacc cgaataatct atggagggtt tgtgaatgca gccaaactgtg 240
 cagagctagc aaagaaagag gatatcgatg gttttcttgt tgggtggtgcc tccttgaagg 300
 ccccggaact 309

<210> 159
 <211> 280
 <212> DNA
 <213> Zea mays

 <400> 159

 gtgattgcat atgagcctgt ttgggctatt ggaaccggaa aagttgctac tcctgagcaa 60
 gccaggaag ttcattgctgc tgtacgcgat tggttgacga ccaacatata acctgatgtt 120
 gcctctagca cccgaataat ctatggaggt tctgtgaatg cagccaactg tgcagagcta 180
 gcaaagaaag aggatatcga tggttttctt gttggtggtg cctccttgaa ggccccggac 240
 ttgccacca ttatcaactc agtgaccgcc aagaaagttg 280

<210> 160
 <211> 295
 <212> DNA
 <213> Zea mays

 <220>
 <221> unsure
 <222> (1)..(295)
 <223> unsure at all n locations

 <400> 160

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aacttttgaa gtatgttttg agcagatgaa ggcttggtgca gatagtattt caaactgggc 120
cgatgttggtg attgcatatg agcctgtttg ggctattgga accggataag ttgctactcc 180
tgagcaagcc caggaagttc atgctgctgt acgcgattgg ttgacgacca acatattacc 240
tgatgttgcc tctagcaatt ttntaatcta tggaggttct gtgaatgcag ccaac 295

<210> 161
<211> 242
<212> DNA
<213> Zea mays

<400> 161

agagagggaa gcaggcaaaa cttttgatgt atgttttagg cagatgaagg cttttgcaga 60
tagtatttca aactgggcag atgttgtaat tgcatacgag cctgtttggg cgattggaac 120
cggaaaagtt gctactcctg agcaagccca ggaagttcat gctgctgtac gcaattggct 180
gaagaccaac atatcacccg atgttgccct tagcactcga ataatttatg gaggttctgt 240
ga 242

<210> 162
<211> 237
<212> DNA
<213> Zea mays

<400> 162

cggaaaagtt gctactcctg agcaagccca ggaagttcat gctgctgtac gcgattgggt 60
gacgaccaac atatcacctg atgttgccct tagcaccoga ataatttatg gaggttctgt 120
gaatgcagcc aactgtgcag agctagcaaa gaaagaggat atcgatgggt ttcttggttg 180
tggtgcctcc ttgaaggccc cggacttcgc caccattatc aactcagtga ccgcca 237

<210> 163
<211> 314
<212> DNA
<213> Zea mays

<400> 163

cccacgcgtc cggcctcggt gaaggccccg gacttcgcca ccattatcaa ctcagtgacc 60
gccaagaaag ttgcagcctg atggaccacc ctgtgagaaa taagaggcca tcagcgtgtc 120

gcctcatctg ccacgcctta aagcctgtat aggaggtgat cctgtgtgatg gtgtgcccgt 180
cacctcctgt ttttgetgat ttgcagcacg gggacagaaa ataatgtttt gctctcgtgg 240
acctgcactg cacgtgacga ggagagttca gttgtcgtga gcgatgtacg ttggggatat 300
tgtgatgtgg tcct 314

<210> 164
<211> 167
<212> DNA
<213> Zea mays

<220>
<221> unsure
<222> (1)..(167)
<223> unsure at all n locations

<400> 164

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ttttgttggt ggtggtgcct ccttgaaggc cccggacttc gccaccatta tcaactcagt 120
gaccgccaag aaagttgcag cctcgtgnga ncacctgtga agaaata 167

<210> 165
<211> 368
<212> DNA
<213> Zea mays

<400> 165

ttcggctcga ggaattgaat gctgtaccct tgaaactgat gtagatgttg tgggtggcaca 60
tccattcatc tatattgacg aggttaagaa ttcactaact ggtcgcattg aggtttctgc 120
tcagaatgtg tggattggaa aaggaggagc ctacaccgga gagatcagtg cagaacaact 180
ggtggacatc ggctgtcaat gggttattct tggacactct gagcgtagac atattattgg 240
tgaaaatgat gagtttattg gaaagaaggc tgcatatgca ttgagcccaa atgttaaggt 300
tattgcctgc ataggagagc tgctggaaga gagggaagca ggcaatactt ttgatgtatg 360
tctaggca 368

<210> 166
<211> 304
<212> DNA
<213> Zea mays

<400> 166

cctcgaaact gatgtagatg ttgtggtggc tctccattc atctatatcg atcagggtcaa 60
gaattcacta acgggtcgca ttgaggtttc tgctcagaat gtgtggattg gaaaaggagg 120
agcctacacc ggagagatca gtgcagaaca actggtggac atcggttgtc aatgggttat 180
tcttggaacac tcagagcgta gacatattat tggtgaaaat gacgagttta ttgggaagaa 240
ggctgcatat gcattgagcc aaaatgttaa ggttattgcc tgcataaggag agcttctgga 300
agag 304

<210> 167

<211> 261

<212> DNA

<213> Zea mays

<400> 167

gtggtggcac ctccatttat ctatattgat cagggttaaga attcactaac tggtcgcatt 60
gaggtttctg ctccagaatgt gtggattgga aaaggaggag cctacaccgg agagatcagt 120
gccgaacaac tgggtggacat cggctgtcaa tgggttattc ttggacactc tgagcgtaga 180
catattattg gtgaaaatga tgagtttatt ggaaagaagg ctgcatatgc attgagccaa 240
aatgttaagg gtattgctg c 261

<210> 168

<211> 225

<212> DNA

<213> Zea mays

<400> 168

tctatatcga tcagggtcaag aattcactaa cgggtcgcat tgaggtttct gctcagaatg 60
tgtggattgg aaaaggagga gcctacaccg gagagatcag tgcagaacaa ctggtggaca 120
tcggttgta atgggttatt cttggacact cagagcgtag acatattatt ggtgaaaatg 180
acgagtttat tgggaagaag gctgcatatg cattgagcca aaatg 225

<210> 169

<211> 328

<212> DNA

<213> Zea mays

<400> 169

```
atacaattta gaagcgcccc tctcctctc ccccatccgt acccaatcta atcgacaccc 60
ggccgagatg ggccgcaagt tcttcgttgg tggcaactgg aaatgcctgg aagagcccgc 120
gtttcttcttc caatgcgcct gtgcttccag gctccagccc agagcaaata gtaaaagccc 180
ttcataagtt tcgtgatgca tggtgtctgt aggagcagag gagttcgata tccaactttt 240
ggagacccat tctcgtttgc tgcacgaatt aaccttacgt ttcttgtcat ggagctcggg 300
gcttgetcaa tctgagcata ggttggag 328
```

<210> 170

<211> 228

<212> DNA

<213> Zea mays

<220>

<221> unsure

<222> (1)..(228)

<223> unsure at all n locations

<400> 170

```
gaagggaggt gcncccactg aatncatnac catttgagat nctngacaac ctncctggggg 60
tagggttcan ggctggncgc cctgaaagga gaacnntaat aagaaaataa catgaattcg 120
ggatccgcag agtcnncgtn tgcggcgggc gngggactaa angtcattgc atgtgttgcc 180
gagacncttg aacacaacna gntngtggac nncatnctnc nncncggg 228
```

<210> 171

<211> 339

<212> DNA

<213> Zea mays

<400> 171

```
ctagagtttt gcagcaacct agcactaagg ctcttgctaa aaagggaaaa cagcaagcat 60
tgacaagtgc tgaagaacca gatgagcctc ctctgtgaag aggagcctac accggactga 120
tcagtgcaaa acaactggtg gacatcatct gtcaatggat gattcttgga cactctgagc 180
gtagacatat tattggtgaa aatgatgagt ttattggaaa gaaggctgca tatgcataga 240
gccaaaatgt taagggcatt gcctgcatag gagagctgct tgaagagagt gaagcatgca 300
```

aaactcttaa tgtatgttga atgcagatga aggcttttg

339

<210> 172

<211> 348

<212> DNA

<213> Zea mays

<400> 172

aacacgcgtc cggcctcctt gaaggccccg gacttcgcca ccattatcaa ctcagtgacc 60

gccaagaaag ttgcagcctg atggaccacc ctgtgaagaa ataagaggcc atcacctgtg 120

cgctcatct gccacgcctt aaagcctgta ggaggcgtca cctcctgttt ttgctgattt 180

gcagcacggg gacagaaaat aatgttttgc tctcgtggat ctgcacgtga cgaggagagt 240

tcagttgtcg tgagcgatgt acgttgggaa tattgttatg tggtcctttt ctaaagaaaa 300

aaaatgttga cagtcaagga aaaataataa aaaaaggcgg ccgctcta 348

<210> 173

<211> 373

<212> DNA

<213> Zea mays

<400> 173

gcgcgcctcg gcttcagcgc catggcgccc tccaggaagt tcttcgttgg gggagactgg 60

gagaagaacg ggcggaagca cagtctgggg gagctcatcg gcactctgaa cgcggtcaag 120

gtgccggccg acaccgatgt ggaacgtgct cagcatactg cctatatcga cttagtccgg 180

cagaagctag atcccaagaa cgctgaggct gcgcagaact gctacaaagt gactaatgac 240

gcttgaactg atgagatcag ccctggcatg atcaaacact gcggagccac acgggcggta 300

ctggggcact cagagagaac gcatgtcttt ggggagtcag atgagctgat tgggcacaaa 360

gtgcgccatg ctc 373

<210> 174

<211> 442

<212> DNA

<213> Zea mays

<400> 174

ggtggagctt ctttgaagcc tgagttcatc gacatcatca acgcggccac cgtgaagggc 60

gctgaagatg ttacgctgaa gacgaacata cttttttttt gctcaactgt gctatgtaag 120
ctagtagctt ttgcgagga gcagagactg ttttgccctgc ccccaacttt tagcttgagc 180
ttgctaataa tgtttacctc tggacgtatc aataatgggtg cttatgtacc ctttttttgt 240
gccgaattac ggtggatccg tcatctgaac catggggttg gtgtatgtaa ttgcgtcacc 300
cgatgcctaa ggtgagactg aagtttttgg acatttgga caaggtagcc ttgtgcccc 360
cattggtcga atgctgcca aactgtaccg gtcattctgtg ctccgtacgg attagcctga 420
tctgcgaatg caacttgtca gc 442

<210> 175
<211> 433
<212> DNA
<213> Zea mays

<400> 175

cccacgcgtc cgggatcatt tacggaggct ctgtaactgc cggaactgc aaagagctgg 60
cagcacagcc tgatgtcgat gggtttcttg tcgggtggagc ttctttgaag cctgagttca 120
tcgacatcat caacgcggcc accgtgaagt ccgcttaaga tggtacgtg aagacgaaca 180
tacttttttt ttgctcaact gtgctatgta agctagtagc ttttgcgag gagcagagac 240
tgttttgcct gccccaaact tttagcttga gcttgctaata aatgtttacc tctggacgta 300
tcaataatgg tgcttatgta cccctttttt gtgccgaatt acggtggatc cgtcatctga 360
accatggggtt tgggtgatgt aattgcgtca cccgatgcct atggtgagac tgaagttttt 420
ggacatttgg gac 433

<210> 176
<211> 427
<212> DNA
<213> Zea mays

<400> 176

cgcaccccaa tctaactgac acctcgccgt gatgggcccgc aagttcttcg tcgggtggcag 60
ctggaaatgc aatggaacca cagatcaggt cgagaagatt gtcaaaacc tgaatgaagg 120
acaggttccc ccttcagatg ttgtggaggt cgttgtcagc cctccttatg tcttccttcc 180
tgtgggtcaag agccagctgc gccaaagatt ccatgttgcg gctcagaact gctgggttaa 240

gaagggaggt gctttcaccg gtgaagtcag tgctgagatg ctcgtaacc ttggtgttcc 300
 ctgggtcatt cttggacact ctgaaaggag agctctgctg ggagaatcaa atgaatttgt 360
 tggagacaag gttgcgtatg ccctgtctca gggactaaag gtcattgcat gtgttggtga 420
 gacactt 427

<210> 177
 <211> 457
 <212> DNA
 <213> Zea mays

<400> 177

aaggttgcgt atgccctgtc tcagggacta aaggtcattg catgtgttgg tgagacagtt 60
 gggcagaggg aggctgggtc taccatggag gttgttgctg cacaacaaa agcaattgct 120
 gagaagatca aggactggag caacgtagtt gttgcctatg aaccagtttg ggctattgga 180
 actggtaaag ttgccacccc agctcaggct caggaagtgc acgccttcct gagggattgg 240
 ctaaagacca acgtcagccc tgaggttgct gaatctacta ggatcattta cggaggctct 300
 gtaactgccg cgaactgcaa agagctagca gcacagcctg atgtcgatgg gtttcttgct 360
 ggtggagctt ctttgaagcc tgagttcatc gacattatca acgcggtcac cgtgaagtcc 420
 gcttaagatg ttacgtgaa gacgaacata ctttttt 457

<210> 178
 <211> 471
 <212> DNA
 <213> Zea mays

<220>
 <221> unsure
 <222> (1)..(471)
 <223> unsure at all n locations

<400> 178

agggttntc aacgtcacgt cgcacggaca gtacagacta cacggtcgag cacgcgtccg 60
 accacacgtc cgcccacgcg tccggctgcg caaaatttc aatgttgcg ctcaaaactg 120
 ctggttaaac aaggaggtc ctttactgg tgaactcagt gctgagatgc tcgtcaacct 180
 tgggtgtccc tgcgtcatc ttggacactc tgaacgaga gctctgctgg gagaatcaaa 240
 tgaatttgtt ggagacaagg ttgcgtatgc cctgtctcag ggactaaagg tcattgcatg 300

tgttggtgag acccttgagc agaaggaggc tgggtctnac atggatggtg ttgctgcaca 360
aacaaaagca attgctgaga agatcaagga ctggagcaac gtacttggtg cctatgaacc 420
agtttgggct attggaactg gtacagttgc cacctcagct caggctcagg a 471

<210> 179
<211> 402
<212> DNA
<213> Zea mays

<400> 179

cccacgcgtc cgcccacgcg tccggacaag gttgcgtatg ccctgtctca gggactaaag 60
gtcattgcat gtgttggtga gacccttgag cagagggagg ctgggtctac catggatggt 120
gttgctgcac aaacaaaagc aattgctgag aagatcaagg actggagcaa cgtagttggt 180
gcctatgaac cagtttgggc tattggaact ggtaaagttg ccaccccagc tcaggctcag 240
gaagtgcacg cctccctgag ggattggcta aagaccaatg ccagccctga ggttgctgaa 300
tctactagga tcatctacgg aggctctgta actgctgcga actgcaaaga gctagcagca 360
cagcctgatg tcgatggttt tcttgctcgtt ggagcttctt tg 402

<210> 180
<211> 450
<212> DNA
<213> Zea mays

<400> 180

atttagaagc gcccctcttc ctctccccct tccgtacceca atctaatega caccgggccg 60
agatggggcg caagttcttc gttggtggca actggaaatg caatggaacc gcagatcagg 120
ttgagaagat tgtcaaaacc ctgaatgaag gaaatgttcc ctcttcagat gttggtgagg 180
tcgttgctcag tcctccttat gtgttcctcc cgggtggtaa gagccagctg cgccaagagt 240
tccaagttgc tgcttagaac tgctgggtga ataaggaggg tgcattcact ggtgaaatta 300
gtgctgaaat gctcgtcaac cttggcggtc cctgggtcat tcttggaacac tctgaaagga 360
gagctctgct gggagaatca aatgagtttg ttggagacaa ggttggtctt gctctgtcta 420
agggactaaa ggtcattgca tgtgttggtg 450

<210> 181
 <211> 503
 <212> DNA
 <213> Zea mays

<400> 181

```

cggcgcctcga ggggctgact gttcatttcg cctgtcgggtg caagtccgaa attcgccggg 60
ccaccacgc aaccgaacca atctagaagc tccctctctc ctccctccct ctctctctct 120
ctcttcgccc tccgaagctc cgcacccaat ctaatcgaca cctcaccgag atgggccgca 180
agttcttcgt cgggtggcaac tggaaatgca atggaaccac agatcagggtc gagaagattg 240
tcaaaaccct gaatgaagga cagggtcccc cttcagatgt tgtcgagggtc gttgtcagcc 300
ctccttatgt cttccttccg gtggtcaaga gccagctgcg ccaagagttc catgttgctg 360
ctcagaactg ctgggtgaag aaggagggtg ctttcaactg tgaagtcagt gctgagatgc 420
tcgtcaacct tgggtgtccc tgggtcattc ttggacactc tgaaggaga gctctgctgg 480
gagaatcaaa tgaatttggt gga 503

```

<210> 182
 <211> 387
 <212> DNA
 <213> Zea mays

<400> 182

```

cccacgcgtc cgcgccccctc ctcctctcct tcatccgtac ccaatctaata ctacaccg 60
gcgagatggg ccgcaagttc ttcgttggtg gcaactggaa atgcaatgga accgcagatc 120
agggtgagaa gattgtcaaa accctgaatg aaggaaatgt tccctcttca gatgttggtg 180
aggtcgttgt cagtcctcct tatgtgttcc tcccggtggt caagagccag ctgcgccaa 240
agttccaagt tgctgctcag aactgctggg tgaagaaggg aggtgcattc actggtgaaa 300
ttagtgctga aatgctcgtc aaccttggtg ttccctgtgt cattcttgga cactctgaaa 360
ggagagctct gctgggagaa tcaaatg 387

```

<210> 183
 <211> 404
 <212> DNA
 <213> Zea mays

<220>

<221> unsure
 <222> (1)..(404)
 <223> unsure at all n locations

 <400> 183

 acttgagcag agggaggctg ggtctaccat ggaggttggt gctgcacaaa caaaagcagt 60
 tgctgagaag atcaaggact ggagcaacgt agttgttgcc tatgaaccag tttgggctat 120
 tggaactggt aaagttgcc a cccagctca ggctcaggaa gtgcacgcct ccctgaggga 180
 ttggctaaag accaacgtca gccctgaggt tgctgaatct actaggatca tttacggagg 240
 ctctgtaact gccgcgaact gcaaagagct agcagcacag cctgatgtcg atgggtttct 300
 tgctcggtgga gcttctttga agcctgagtt catcgacatc atcaacgcgg ccaccgtgaa 360
 gtccgcttaa gatgttacgc tgaagacgaa catactnttt tttt 404

<210> 184
 <211> 413
 <212> DNA
 <213> Zea mays

<400> 184

 aatccaatct agaagcacc ctctccctct ctctctcttc gccgtccgaa gctccgcacc 60
 ccaatcta at cgacacctca ccgagatggg ccgcaagttc ttcgtcggtg gcaactggaa 120
 atgcaatgga accacagatc aggtcgagaa gattgtcaaa accctgaatg aaggacaggt 180
 tcccccttca gatgttggtg aggtcggtgt cagccctcct tatgtcttcc ttcctgtggt 240
 caagagccag ctgcgccaag agttccatgt tgctgctcag aactgctggg tgaagaaggg 300
 aggtgctttc actggtgaag tcagtgtga gatgctcgtc aaccttggtg ttccttggtg 360
 cattcttgga cactctgaaa ggaaagctct gctgggaaaa tcaaatgaat ttg 413

<210> 185
 <211> 423
 <212> DNA
 <213> Zea mays

<220>
 <221> unsure
 <222> (1)..(423)
 <223> unsure at all n locations

 <400> 185

```

agggggntnn naacagggcc ccagtccnc gcacgtcca ccggaangga agggncgacc 60
cgagcgagcg gntgctcaga actgctgggt gaagaagggt tgtgcattca ctggtgaaat 120
tagtgctgaa atgctgggtca accttggcgt tccctgggtc attcttggac actctgaaag 180
gagagctctg ctgggagaat caaatgagtt tggtggagac aaggttgctt ttgctctgtc 240
tcagggacta aaggtcattg catgtgttg tgagaccctt gaggagaggg aggctggttc 300
aaccatggat gttgttgctg cacaacaaa agcaattgct gagaagatca aggactggag 360
caacgttggt cttgcctatg aaccagtctg ggctattgga actggcaaag tcgccacccc 420
agc 423

```

```

<210> 186
<211> 423
<212> DNA
<213> Zea mays

```

```

<220>
<221> unsure
<222> (1)..(423)
<223> unsure at all n locations

```

```

<400> 186

```

```

aagctccgac ccaatctaata cgacacctca ccgagatggg ccgcaagtgc ttcgtcgggtg 60
gcaactggaa atgcaatgga accacagatc aggtcgagaa gattgtcaaa accctgaatg 120
aaggacaggt tcccccttca gatgttgctg aggtcggttg cagccctcct tatgtcttcc 180
ttcctgtggt caagagccag ctgcgccaa agttccatgt tgctgctcag aactgctggg 240
tgaagaaggg aggtgctttc actggtgaag tcagtgtgta gatgctcgtc aaccttggtg 300
ttccctgggt cattcttgga cactctgaaa ggagagctct gctaggagaa tcanatgaat 360
ctgttgagaa caaggttgct tatgccctgt cttaggact aaaggtcatt gcatgttggt 420
gtg 423

```

```

<210> 187
<211> 379
<212> DNA
<213> Zea mays

```

```

<400> 187

```

```

gggaggtgca ttcactggtg aaattagtgc tgagatgctc gtcaaccttg gcgttccttg 60
ggtcattctt ggacactctg aaaggagagc tctgctggga gaatcaaag agtttggttg 120
agacaagggt gcttttgctc tgtctcaggg actaaaggtc attgcatgtg ttggtgagac 180
ccttgaggag agggaggctg gttcaaccat ggatgttggt gctgcacaaa caaaagcaat 240
tgctgagaag atcaaggact ggagcaacgt tgttcttgcc tatgaaccag tctgggctat 300
tggaactggc aaagtcgcca cccagctca ggctcaggaa gtgcacgcct tcctgaggga 360
ttgggtaaag atcaatgctc 379

```

```

<210>      188
<211>      349
<212>      DNA
<213>      Zea mays

```

```

<220>
<221>      unsure
<222>      (1)..(349)
<223>      unsure at all n locations

```

```

<400>      188

```

```

cggacgcgtg ggctgaaagg agagctctgc tgggagaatc aatgaattt gttggagaca 60
aggttgcgta tgccctgtct cagggactaa aggtcattgc atgtgttggt gagacacttg 120
agcagagggg ggctgggtct accatggagg ttgttgctgc acaaacaaaa gcaattgctg 180
agaagatcaa ggactggagc aacgtagttg ttgcctatga accagtttgg gctattggaa 240
ctggtaaagt tgccacccca gctcaggctc aggaagtgca cgcctnctg agggattggc 300
taaagaccaa cgtcagccct gaggttgctg aatctactag gatcattta 349

```

```

<210>      189
<211>      314
<212>      DNA
<213>      Zea mays

```

```

<400>      189

```

```

caggtcgaga agattgtcaa aaccctgaat gaaggacagg ttcccccttc agatgttggt 60
gaggtcgttg tcagccctcc ttatgtcttc cttcctgtgg tcaagagcca gctgcgccaa 120
gagttccatg ttgcggctca gaactgctgg gttaagaagg gaggtgcttt caccggtgaa 180
gtcagtgtg agatgctcgt caaccttggg gttccctggg tcattcttgg acactctgaa 240

```

aggagagctc tgctgggaga atcaaatgaa tttgttgag acaagggtgc gtatgcctg 300
tctcaggac taaa 314

<210> 190
<211> 360
<212> DNA
<213> Zea mays

<400> 190

gcctctgttg gccgttcgaa tctccgcacc caatttaatc gacacctcac cgagatgggc 60
cgcagagtgc ttcgtcgggtg gcaactggaa atgcaatgga accacagatc aggtcgagaa 120
gattgtcaaa accctgaatg aaggacaggt tcccccttca gatgttgctg aggtcgttgt 180
cagccctcct tatgtcttcc ttctgtggt caagagccag ctgcgccaag agttccatgt 240
tgctgctcag aactgctggg tgaagaaggg aggtgctttc actggtgaag tcagtgtga 300
gatgctcgtc aaccttggtg ttccctgggt cattcttga cactctgaaa agagagctct 360

<210> 191
<211> 338
<212> DNA
<213> Zea mays

<400> 191

gccaaatata atttagaagc gccctcctc ctctccccc tccgtaccca atcgaatcga 60
caccgggccc agatgggccc caagttcttc gttggtggca actggaaatg caatggaacc 120
gcagatcagg ttgagaagat tgtcaaaacc ctgaatgaag gaaatgttcc ctcttcagat 180
gttggtgagg tcgttgctcag tctccttat gtgttctctc cgggtggtcaa gagccagctg 240
cgccaagagt tccaagttgc tgctcagaac tgctgggtga agaaggagg tgcattcact 300
ggtgaaatta gtgctgaaat gctcgtcaac cttggcgt 338

<210> 192
<211> 430
<212> DNA
<213> Zea mays

<400> 192

agcatcgtag gcggccatca tcaaactaca ggctcatggc taggactcgc gggcagatac 60

acgcctcaga attgattcgt aggagacaat gttgcgtatg ccctgtctca tggactaacg 120
gtcattgcat gtggttggtga tacccttgat catagggatg ctgagtctac catggatggt 180
gttgctgcac atccagaagc aattgctgat aacatcaagg actggatcaa cgtaattggt 240
gcctatgaac cactttgggc tattggaact ggtaaagttg ccaccccagc tcaggctcag 300
gaagtgcacg cctccctgaa ggattggcta aagaccaatg ccatccctga ggttgctgaa 360
tctactagga tcctctacgg aggctctgta actgctgcga actgcagata gctagcagca 420
cagcctgatg 430

<210> 193
<211> 408
<212> DNA
<213> Zea mays

<400> 193

gcgatccaat ctagactctc ccctcttctt ccctccctct ctctatctct cttcgggggtc 60
cgaatctacg gaccaagcg aatcgacacc tcaccgacat gggccgcacg ctcttcatcc 120
gtggcaactg gaaatgcaat ggaaccacag atcatgtcgc gaacatagtc aaaaccctga 180
atgaacgaca ggttccccct tcagatcttg accaggtcgt tgccagccct acttatgtct 240
tccttctgt gctcaagagc cagctgtgcc aagagttcca tgatgctgct cataactgct 300
gggtgaagaa aggacgtgct ttcactgggtg aactcagatc tgagatgctc ctcaaccttg 360
gtgateccctg agtcattctt ggacactctg aaacgagaac tctgcttg 408

<210> 194
<211> 267
<212> DNA
<213> Zea mays

<400> 194

tcggccacgc cgttcgccac gcgttcgctt ggacactctt aaaggagagc tcttcttgga 60
gaatcaaattg aatttggttg agacaaagtt gcgtatgccc tgtctcaggg actaaagggtc 120
attgcatgtg ttggtgagac acttgagcag aaggaggctg ggtctaccat ggaggttggt 180
gctgcacaaa caaaagcaat tgctgagaag atcaaggact ggagcaacgt agttggtgcc 240
tatgaaccag tttgggctat tggaact 267

<210> 195
 <211> 241
 <212> DNA
 <213> Zea mays

<400> 195

tcgtgctcac tctacaagga gagctctgct gggagaatca aatgaatttg ttggaaacaa 60
 gggtgcgtat gccctgtctt agggactaaa ggtcattgca tgtgttggtg agacccttga 120
 gcagaaggag gctgggtcta ccatggatgt tgggtgctgca caaacgaaag caattgctga 180
 gaagatcaag gactggagca acgtagtttg tgcctatgaa ccatgttggg ctatcggaac 240
 t 241

<210> 196
 <211> 260
 <212> DNA
 <213> Zea mays

<400> 196

atccaatcta gaagctcccc tctccctccc tccctctctc tctctctctt cgccgtccga 60
 agctccgcac ccaatctaata cgacacctca ccgagatggg ccgcaagtgc ttcgtcgggtg 120
 gcaactggaa atgcaatgga accacagatc aggtcgagaa gattgtcaaa accctgaatg 180
 aaggacaggt tcccccttca gatgttgctg aggtcggttg cagccctcct tatgtcttcc 240
 ttctctgtgt caagagccat 260

<210> 197
 <211> 398
 <212> DNA
 <213> Zea mays

<400> 197

cagccctgag gtctctgaat ctacaaggat catctatgga gggtcagtaa ctgctgcgaa 60
 ctgcaaagag ctggcagcac agcctgatgt cgatggtttc cttgtgggag gtgcttcttt 120
 gaagcccgag ttcacgaca tcatcaacgc cgccgccgtg tgaagtccgc tgaagatgtt 180
 ccaacccttc accctgttgc ggtgatgtgc tgaagacaga tcagactact tttttgttta 240
 accgtgcagt gctatgtaag ctactaactt tgcgctgggt cggtatgctga tttccctccc 300

cctagctttt tgtgaggcta ctctacagct tgattcagct tgctaataat gtttgctct 360
 ggacatagcg atagtgggtgt ttgtgtagcc cttttttt 398

<210> 198
 <211> 231
 <212> DNA
 <213> Zea mays

<400> 198

caatttagaa gcgccctcc tcctctccc atccgtgacc caatctaatac gacaccggc 60
 cgagatgggc cgcaagttct tcgttggtgg caactggaaa tgcaatggaa ccgcagatca 120
 ggttgagaag attgtcaaaa ccctgaatga aggaaatgtt ccctcttcag atgtcgttga 180
 ggtcgttggtc aagcctactt atgtgttcct cccggtgggtc aagagccagc t 231

<210> 199
 <211> 304
 <212> DNA
 <213> Zea mays

<400> 199

ctgcaaagag ctggcagcac agcctgatgt cgatgggttc cttgtgggag gtgcttcttt 60
 gaggcccgag ttcacgaca tcatcaacgc cgccgcggtg tgaagtccgc tgaagatgtt 120
 ccaacccttc accctgttgc ggtgatgtgc tgaagacaga tcagactatt tttttgttta 180
 accgtgcagt gctatgtaag ctactaactt tgcgctgggtg cggatgctga tttccctccc 240
 cctagctttt tgtgaggcta ctctacagct tgattcagct tgctaataat gtttgctct 300
 ggac 304

<210> 200
 <211> 463
 <212> DNA
 <213> Zea mays

<220>
 <221> unsure
 <222> (1)..(463)
 <223> unsure at all n locations
 <400> 200

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agccngcgct acagaacagg cagcaccgtc gctctggcct ggcacctttg ggctgggttta 60
tgtgcttggt gatgtgcggg tggatgtgcg ggctacgcag ttagtcgtgt taagagcctt 120
aagccgtcgt ctagaatcgt cgggcgaaga agggaggcgt acctatcggc gaaaccagcg 180
tcgaaacgtc tgctaattcc ggtgcctttc gggctacctc cggatatctc gaaaggagag 240
tctcgtcggg agaactaaac gagcccgcgc gagataaggc cgtccccgtc tcgctctagg 300
gatcaaaggc taccgtagcg gccggcgaga tttccgagga gagggaggtc ggcctaatta 360
cggacgcccgc cgtcgtataa ataaaagtaa ccgtcgagaa gactaaggat cggagtaatg 420
ccgcctccgt tcacgaatta gctcgggtca ccggaatcgg taa 463

```

```

<210>      201
<211>      469
<212>      DNA
<213>      Zea mays

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<220>
<221>      unsure
<222>      (1)..(469)
<223>      unsure at all n locations

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<400>      201

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agtcagcggg ggctttttga ttcccctgtn canatcacgn ctggccccgt tggacgtggt 60
tatgtgcctg tggatgtgcg ggtggatgtg cgggctaccc acctatcgtg ttaagagcct 120
taagccgtgg tcggagatcg tcgggcgaag aagggaggcg tacctatcgg cgaaaccagc 180
gtcgaaacgt ctgctaattc cggtgccctt cgggctacct ccggatatct cgaaaggaga 240
gtctcgtcgg gagaactaaa cgagcccgcg ggagataagg ccgtccccgt ctcgctctag 300
ggatcaaagg ctaccgtacg cgccggcgag atttccgagg agagggagggt cggcctaatt 360
acggacgccc ccgtcgtata aataaaaagta accgtcgaga agactaagga tcggagtaat 420
gccgcctccg ttcacgaatt agtcgggtc accggaatcg gtaaagctg 469

```

```

<210>      202
<211>      466
<212>      DNA
<213>      Zea mays

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```

<220>
<221>      unsure
<222>      (1)..(466)

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<223> unsure at all n locations

<400> 202

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ctcgtctgct acgcctctcc tgcaggacga ccaatggctt ccaggaagtt cttcgtgggt   60
ggcaactgga aatgcaacgg tactggcgag gacgtgaaga agatcgtcac cgtgctcaac  120
caagccgagg tgcctctga agacgtcgtc gaggtgggtg tgagtcgcc tttcgttttt  180
ctgcagcagg tcaaggggct gctgcggctg gacttcgccg tcgcagcgca gaactgctgg  240
gtgcgcaagg gcggcgcctt caccggcgag atcagtgtg agatgctgg aaacctgcag  300
gtgcctgng tcattttggg acattctgag cgcagagctc tgttgggtga atccagtgat  360
tttgttgctg ataaagttgc atatgcactc actcaaggctc tcaaggtaat tgcttgcat  420
ggtgagaccc ttgagcagag agaggcagga acaacaatgg atgttg                    466
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<210> 203

<211> 402

<212> DNA

<213> Zea mays

<400> 203

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cccacgcgtc cgccctcgcg tctttgcgta cgaggacggc ttctagtccc tcgcctaccc   60
cgcccccgaa cctggcgtct gccctaccaa ccgcagcagc gacactagaa tggccgcggc  120
gccgtcatcc ctgcgctcct cccacctctc cccaatcgcg gcggtgtcca ctcccgccgt  180
cccacatcag cttcgcatcg gctgctcccc ccgacgcgcc gggcgcatcg ttgccatggc  240
tggatccggc aagttcttcg tcggaggcaa ctggaagtgc aatggaacaa aggactccat  300
tagcaaactt gtctctgaat tgaatgctgc tacccttgaa actgatgtag atgttggtgt  360
ggcacccctc tttatctata ttgatcaggt taaagaattc ac                        402
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<210> 204

<211> 415

<212> DNA

<213> Zea mays

<400> 204

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aatgggttat tcttgacac tctgagcgta gacatattat tggtgaaaat gaggagtgt  60
ttggaaagaa ggctgcatat gcattgagcc aaaatgttaa gggtattgcc tgcataaggag  120
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agctgctgga agagagggaa gcaggcaaaa cttttgatgt atgttttagg cagatgaagg 180
cttttgcaga tagtatttca aactgggcag atgttgtaat tgcatacgag cctgtttggg 240
ctattggaac cggaaggtt gctactcctg aacaagccca ggaagtcat gctgctgtac 300
gcaattggct gaagaccaac atatgaccg atgttgccct tagcactcga ataatctatg 360
gaggatctga gaatgcatgc aactgtgcgg agctagcaaa gaaagaagat attga 415

<210> 205
<211> 433
<212> DNA
<213> Zea mays

<400> 205

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gaggttctgt gaatgcagcc aactgtgcag agctagcaaa gaaagaagat atcgacgggt 120
ttcttggttg tgggtgcctg ttgaaggccc cggacttcgc caccattatc aactcagtga 180
ccgccaagaa agttgcagcc tgatggacca ccctgtgaga aataagaggc catcagcgtg 240
tcgcctcatc tgccacgcct taaagcctgt ataggaggtg atccgtgtga tgggtgtgccc 300
gtcacctcct gtttttctg atttgcagca cggggacaga aaataatgtt ttgctctcgt 360
ggacctgcac tgcacgtgac gaggagagtt cagttgtcgt gagcgatgta cgttggggat 420
attgtgatgt ggt 433

<210> 206
<211> 429
<212> DNA
<213> Zea mays

<400> 206

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ggtttctgct cagaatgtgt ggattggaaa aggaggagcc tacaccggag agatcagtgc 120
agaacaactg gtggacatcg gctgtcaatg gggtattctt ggacactctg agcgtagaca 180
tattattggt gaaaatgatg agtttatttg aaagaaggct gcatatgcat tgagccaaaa 240
tgtaaggtt attgcctgca taggagagct gctggaagag aggaagcag gcaaaaacttt 300
tgatgtatgt ttaagcaga tgaaggcttt tgcagatagt atttcaaact gggcagatgt 360

tgtaattgca tacgaacctg tttgggctat tggaaccgga aaagttgcta cttcttgaac 420
aaccacaaga 429

<210> 207
<211> 298
<212> DNA
<213> Zea mays

<400> 207

ccattcctcc ccaaaacaca tcctgcatc ctgaagcct ccgccgagca tcgatcatgt 60
cggcctactg cggcaagtac gcgggtacgt tccatcgtct cctccttcgt tgctgatctg 120
cttgtgatgt cgtttggcct cgtgtgtcgt agatctacga tctactagtt gttcgttgtt 180
gatgcctca gatctacctg cgtttgacga gtatgttaac gattcgtcta gctctgagag 240
acccaaggga tttgcggatc cttttttaga tccgtacagg ctcttgcggt cgtgccta 298

<210> 208
<211> 288
<212> DNA
<213> Zea mays

<400> 208

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acactctttg tagactgtac tgtccacaga tcggagtttg aaatggaatg tgtggacaga 120
aatctggtgg cctagcctaa cgattcgtat aggtctgaga gactcgttca gttgtaggat 180
ttgtggattt tttttagatc cgtacaggat tgtgctgtcg tgtgcccgcc aagtgcttgg 240
tggttgcaa aaggtgatgc ctctgatcgg tttggatatg ggatttgc 288

<210> 209
<211> 61
<212> DNA
<213> Zea mays

<400> 209

ctcccagcac cacctcgccg cgatctccgt agcgtccgtc gcgtcgagca tcgatcatgt 60
c 61

<210> 210

<211> 325
 <212> DNA
 <213> Zea mays

 <400> 210

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 ttagtcatga tgtttatgcc gatacaatta tatataaagc agtttttggt taataaacag 120
 taaacttcct gaattaataa ttaaagttaa ttttgtatta ttcaggatgg cctcctgatt 180
 tgataatgga agtcattttg tattattcag tatagccttg gtacctggta gatagccatg 240
 cttattatgc atattgtttt gcagatgagc tcatcaagaa tgctgcctac attggcaccc 300
 ccggcaaggg tatecttgct gctga 325

<210> 211
 <211> 297
 <212> DNA
 <213> Zea mays

 <400> 211

 tgcaccacag gaaagcgctg ccaccggcac catgccccac ccatacccag cactgacccc 60
 ggaccatata aaggagcttg ctgacatcgc tcaccgcatt gtagctccgg gcaagggcat 120
 cctggctgca gacgagtcca ctggaagcac tgccaagcgc ctgcagtcca ttggcagcga 180
 gaacaccgag gagaacaggc gcttctaccg ccaactgctg ctgactgccg atgaccgtgt 240
 gaatccctgc attggaaggg tgatcctttt ccacgagaca ctataccaga aggcaga 297

<210> 212
 <211> 167
 <212> DNA
 <213> Zea mays

 <400> 212

 tgtctatctg gaaggcacac tgctgaagct catcattgtc acccctggcc atgcttgcac 60
 ccagaaattt tccaatgagg aaattgccat ggctatatac acagcacttc gtcgaacagt 120
 gccccctgcc gtcctgggg tcactttcct gtctggaggg cagagtg 167

<210> 213
 <211> 257
 <212> DNA

<213> Zea mays

<400> 213

ctcgagccga atcggctcga ggtattagtt agataaccgt gctagtgtt attgattgtc 60
aagtcccact gttcttgctc taaatctgtg tctgttggtt tgcagatgag ctcatcaaga 120
atgctgccta catcggcacc cctggcaagg gtatccttgc tgctgatgag tcaactggca 180
ccagtggcaa ggcgctttcc agcatcaatg tcgagtacgt ggaggagaac cggcgggctc 240
tccgtgagct cctgttc 257

<210> 214

<211> 273

<212> DNA

<213> Zea mays

<400> 214

ggttgacaag ggtttggttc cattgcctgg atccaacaat gaatcatggt gccaaggctc 60
tgatggtttg gcttcaaggt gtgctgagta ctataagcag ggggcgcgct tcgcaaagtg 120
gaggactggt gttagcatcc cttgtggtcc atctgcatta gcagtcaagg aagcagcatg 180
gggacttgct cgatatgctg ctattgctca ggataatggt ttagtgccaa ttgtggagcc 240
agagattcctt cttgatggag accatgggat cga 273

<210> 215

<211> 255

<212> DNA

<213> Zea mays

<400> 215

ggttgacaag ggtttggttc cattgcctgg atccaacaat gaatcatggt gccaaggctc 60
tgatggtttg gcttcaaggt gtgctgagta ctataagcag ggggcgcgct tcgcaaagtg 120
gaggactggt gttagcatcc cttgtggtcc atctgcatta gcagtcaagg aagcagcatg 180
gggacttgct cgatatgctg ctattgctca ggataatggt ttagtgccaa ttgtggagcc 240
agagattcctt cttga 255

<210> 216

<211> 320

<212> DNA

<213> Zea mays

<400> 216

agtttggttc cattgcctgg atccaacaat gaatcatggt gccaaagtct tgatggtttg 60
gcttcaaggt gtgctgagta ctataagcag ggggcgcgct tcgcaaagtg gaggactggt 120
gttagcatcc cttgtggtcc atctgcatta gcagtcaagg aagcagcatg gggacttgct 180
cgatatgctg ctattgctca ggataatagt ttagtgccaa ttgtggagcc agagattctt 240
cttgatggag accatgggat cgacggagct cttgaggtgg cagagaaagt gtggtctgag 300
gtgtttttct acttagccga 320

<210> 217

<211> 284

<212> DNA

<213> Zea mays

<400> 217

cctttatcaa tcaactacag acggcaagaa gtttgttgac tgcttgaagg atcagaatat 60
catgcctggc atcaagggtt acaagggttt ggttcattg cctggactca acaatgaatc 120
atggtgccaa ggtcttgatg gtttggttc aaggtgtgct gagtactata agcagggggc 180
gcgcttcgca aagtggagga ctgttgtag catcccttgt ggtccatctg cattagcagt 240
caaggaagca gcatggggac ttgctcgata tgctgctatt gctc 284

<210> 218

<211> 285

<212> DNA

<213> Zea mays

<400> 218

ggagaccctt tatcaatcaa ctacaacggc aagaagtttg atgactgctt gaaggatcag 60
aatatcatgc ctggcatcaa ggttgacaag ggttagttc cattgcctgg atccaacaat 120
gaatcatggt gccaaagtct tgatggtttt tattcaaggt gtgctgagta ctataagcag 180
ggggcgcgct tcgcaaagtg gaggactggt gttagcatcc cttgtggtcc atctgcatta 240
gcagtcaagg aagcagcatg gggacttgct cgattgctgc tattg 285

<210> 219

<211> 267
 <212> DNA
 <213> Zea mays

 <400> 219

 tttggcttca aggtgtgctg agtactataa gcagggggcc cgcttcgcaa agtggaggac 60
 tgttgtagc atcccttggg gtccatctgc attagctgtg aaggaagcag catggggact 120
 tgctcgatat gctgctatcg ctcaggataa tgtcttagtg ccaattgtgg agccagagat 180
 ccttcttgat ggagaccatg ggatcgaaag gactctcgag tggcagagaa gtgtggctga 240
 ggtgtcttct actgcccaga caatgtc 267

<210> 220
 <211> 83
 <212> DNA
 <213> Zea mays

 <400> 220

 gtgatggttt ggcttcaagg tgtgctgagt actataagca gggggcgcgc ttcgcaaagt 60
 aggccgactg tctgctagca tcc 83

<210> 221
 <211> 277
 <212> DNA
 <213> Zea mays

 <400> 221

 gttgttttgc agatgagctc atcaagaatg ctgcctacat cggcaccctt ggcaagggtta 60
 tccttgctgc tgatgagtca actggcacca ttggcaagcg cttttccagc atcaatgtcg 120
 agaacgtgga ggagaaccgg cgggctctcc gtgagctcct gttctgctgc cctgggtgccc 180
 tccagtacat cagcgggtgtg atcctcttcg aggagaccct ctaccagaag accaaggatg 240
 gcaagccttt tgtcgatgtc ctcaaggagg gaggcgt 277

<210> 222
 <211> 203
 <212> DNA
 <213> Zea mays

 <400> 222

ggatgatggt tatctttata tttgtatggt aattagtctc tttgctgtta aatttcgtgt 60
aagttggtcc tgccgatgga gaatcgagca gctccctttt tttgttctat caactatgct 120
gtaattctgg ctatgtatcg gcaaaaacaa ttctatatgc tgagttggag tcggcaaaaa 180
ttcatatatg ctgagttgga gac 203

<210> 223
<211> 158
<212> DNA
<213> Zea mays

<400> 223

ccacctcgcc gcgatctccg tagcctccgt cgcgtcgagc atcgatcatg tcggcctact 60
gcggaaagta caaggatgag ctcatcaagg attgctgcct acattggcac ccctggcaag 120
ggtatccttg ctgctgatga gtccactggc accattgg 158

<210> 224
<211> 93
<212> DNA
<213> Zea mays

<400> 224

cgaccttggc aagcgttgcg ccaagtacta cgaggcaggt gcccgctttg ccaagtggcg 60
cgctgttctc aagattggcc ctaatgagcc atc 93

<210> 225
<211> 257
<212> DNA
<213> Zea mays

<400> 225

gaacaatcca gtgtgcctat cagtgtccac tatgaccacg gcatttccaa gtcagacttg 60
cttcaagctc ttgaagcggg atttgattca gtcatggtgg atggttctca tctaacttta 120
ggggataaca tcttatacac aaagagcata tcttccttgg ctcatgcaaa aggtttactt 180
gtggaagctg agttgggtag gctctcaggc tctgaagatg gcatgaccgt tgaagaatat 240
gaagcaagat ttactga 257

<210> 226

<211> 268
 <212> DNA
 <213> Zea mays

<400> 226

ctaaagcaag gtggagtccc actggtagca tgttgcattg ctgctgcaga acaatccagt 60
 gtgcctatca gtgtccacta tgaccacggc atttccaagt cagacttgct tcaagctctt 120
 gaagcgggat ttgattcagt catggtggat ggttctcatc taactttagg ggataacatc 180
 ttatacacia agagcgtatc ttccttggct catgcaaaag gtttacttgt ggaagctgag 240
 ttgggtaggc tctcaggctc tgaagatg 268

<210> 227
 <211> 136
 <212> DNA
 <213> Zea mays

<400> 227

cgctgtcctt ctccttcggc cgcgcgctgc agcagagcac cctcaagaag tgggtcggca 60
 agaaggagaa cgtcgccgcc gcgcatgcca ccttcgtcat ccgctgcaag gccaaactccg 120
 aggccgcgct gggcaa 136

<210> 228
 <211> 207
 <212> DNA
 <213> Zea mays

<220>
 <221> unsure
 <222> (1)..(207)
 <223> unsure at all n locations

<400> 228

ggtggacaag ggccttgtcc cgctcgccgg ctccaacaac gagtcgtggt gccaggggct 60
 ggacggcctg gcgtcccgcg aggcogncta ctaccaacia ggccgcgccg tccgccaaagt 120
 gccccaccgt ggcaagaatc cttaacggcc cttccaagtt cgccgtcaag gagggcccctt 180
 ggggcttgga acgttaggcc gcctttt 207

<210> 229
 <211> 482

<212> DNA
 <213> Zea mays
 <220>
 <221> unsure
 <222> (1)..(482)
 <223> unsure at all n locations

<400> 229

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gtggggnnnn cgcacccac ctaaennnn natctctctc cctctccgaa taaccggctg 60
gaccacgcg tccgggcact tgatcagtca aatgcaacat gtggcaagag gttatcatct 120
attggcttgc ggaacacata attgaaccgt caggcttaca ggcagctatt gctgacaact 180
gctgttcttg gtgaatatat cactggcgct attcttttctg aacgagaccc tttatcaatc 240
aactacagac ggcaagaagc ttgttgactg cttgaaagat cagaatatca tgcctggcat 300
caatgttgac aagggtttga ttccattgcc tggatccaac aatgaatcat ggtaccaaag 360
tcttgatggc ttggcttcaa ggcgtgctga ctactataag cagggtggcg gcttcgcata 420
gcgcattgact gttgctagca tccatcgtgg tgcattctgca ttatcagtca atgaatcatc 480
at 482
```

<210> 230
 <211> 414
 <212> DNA
 <213> Zea mays

<400> 230

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gtaaacctca ttatatcatt gcaaaggag gaatcacttc atctgatatt gctacaaagg 60
cgctggaagc taaacgtgcc aaagtcattg gacaagcatt agctgggtga cccttggtgc 120
agcttggtcc tgagagtaga tttcctgggg tcccttacat tgtttttctt ggtaattgtg 180
gtgataacag tgctcttgct aaagtgggtga aaagtggggc ttcccatctc agaagttcta 240
caaaagaaat tcttcttgat ggcggagaatg gcggttatgc tgttggtgct ttcaatgtgt 300
ataaccttga gggaattgaa gctgttggtg cagcagcaga ggctgaaaag agtcctgcta 360
ttcttcagat tcatccgagt gctctaaagc aagggtggagt cccactggta gcat 414
```

<210> 231
 <211> 355
 <212> DNA

<213> Zea mays

<400> 231

attcactata accttgatac ctggtagata gccatgcttt atgcatatcg tattgcagat 60
gagctcatca agaatgctga ctacattggc acccctgaca agggatcctt tgctgctgat 120
gagtccactg gcaccattgg caagcgcctt tccagcatca atgtctagaa cggtgacgag 180
aaccgcctg cctccctga gctcctattc tgctgcctg gtgctctcca gtacatcagc 240
gggtgatcc tcttcgagga gaccctgtac cagaagacca aggatggcta gccttctgtc 300
gatgtcctga acgagggagg cgttctccat agcatcaagg ttgacaaggg cacca 355

<210> 232

<211> 154

<212> DNA

<213> Zea mays

<400> 232

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ctggctatgt atcggcaaaa acaattctat atgctgagtt ggagtcggca aaaattcata 120
tatgctgagt tggagacagc aacttgtttg gatc 154

<210> 233

<211> 146

<212> DNA

<213> Zea mays

<400> 233

ggaggccatc ttcgtcgacc cggccctccg cgggaagtac tgcgtctgct tcgacccgct 60
ggatggctcc tccaacatcg actgtggtgt ctcaatcgga acggtgtgtc actgtcactc 120
ccggtggtgt ttcaaacctt cttacc 146

<210> 234

<211> 184

<212> DNA

<213> Zea mays

<400> 234

agcatccgaa gaagtactca gctcgctacg tgtgctcact ggtggctgat ttccaccgga 60

cgctcatata tggcggggtc gcatgaaccc aagggacat ctgcggctgg tttatgaggc 120
gaaccctctc agtttccttg ctgaacaggc tgggggtaga gggtcagatg gcaagatcag 180
aatc 184

<210> 235
<211> 183
<212> DNA
<213> Zea mays

<400> 235

agcgccagca agcgcagcag accaatctcc aacctcacgg gcgttcaggg cgccgtcaat 60
gtgcagggcg aggaccagaa gccgctcgat gtcgtctcca acgaggtgtt ctccaactgc 120
ctcaagtcga gcgggagcac cggcgtgata cgctcggcgg cggaggacgt gcccgtagcg 180
gtg 183

<210> 236
<211> 342
<212> DNA
<213> Zea mays

<400> 236

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gcagcctgga acaaactgc ttgctgctgg ctactgcatg tacggaagtt catgtagact 120
gtgctgagca ctgggaccac atcaatgagt tcactctcga tccttcctt ggagagttca 180
ttttgactca tccagatatc aagggttaatg ataaaaacaa ctcgacactt cttttctatc 240
ctggctgata gatacccctg gtttagcacta taaaacgaaa tgggtactact tgagtttggg 300
tatcacgtgt tgtgcgtgct tcgttctttt cttgtgcaga ta 342

<210> 237
<211> 309
<212> DNA
<213> Zea mays

<400> 237

ggaccagaag aagctcgatg tcgtctccaa cgaggtgttc tccaactgcc tcaagtcgag 60
cgggagcacc ggcgtgatcg cctcggagga ggaggacgtg cccgtagcgg tggagcagag 120

ctactccggc aactacatcg tcgtgttcga ccctctcgac ggctcctcca acatcgacgc 180
cgccgtctcc actgggtcca tcttcggcat ctacaacccc aacgacgagt gcctcgccga 240
cgtcgacgac aatgacaccc ttgattcggg ggagcagagg tgcacgtga acgtgtgcca 300
gccgggggag 309

<210> 238
<211> 295
<212> DNA
<213> Zea mays

<400> 238

accagaagaa gctcgatgtc gtctccaacg aggtgttctc caactgcctc aagtcgagcg 60
ggcgcaccgg cgtgatcgcc tcggaggagg aggacgtgcc cgtagcgggtg gagcagagct 120
actccggcaa ctacatcgtc gtgttcgacc ctctcgacgg ctctccaac atcgacgccg 180
ccgtctccac tggctccatc ttcggcatct acaaccccaa cgacgagtgc ctgcgccgacg 240
tcgacgacaa tgacaccctt gattcgggtg agcagagggtg catcgtgaac gtgtg 295

<210> 239
<211> 276
<212> DNA
<213> Zea mays

<400> 239

ctcaagtcga gcggg'gcac cggcgtgatc gcctcggagg aggaggacgt gcccgtagcg 60
gtggagcaga gctactccgg caactacatc gtcgtgttcg accctctcga cggctcctcc 120
accatcgacg ccgccgtctc cactgctcca tcttcggcat ctacaacccc aacgacgagt 180
gcctcgccga cgtcgacgac aatgacaccc ttgattcggg ggagcagagg tgcacgtga 240
acgtgtgcca gccggggagc aacctgctgg ccgccg 276

<210> 240
<211> 269
<212> DNA
<213> Zea mays

<400> 240

tcgagatccc caaggcgggc aagatctacg ccttcaacga gggcaactac gcgctctggg 60

acgacaagct gaagctgtac atggacagcc tcaaggagcc cggcgactcg gggaagccct 120
actccgcgcg gtacataggc agcctcgtcg gggacttcca ccgcactctt ctctacggag 180
ggatctacgg gtaccccagg gacaagaaga gcaagaacgg caagctgcgg cttctctacg 240
agtgcgcccc catgagcttc atcgtcgag 269

<210> 241
<211> 292
<212> DNA
<213> Zea mays

<400> 241

ctcggggaag ccctactccg cgcggtacat aggcagcctc gtcggcgact tccaccgcac 60
tcttctctac ggagggatct acgggtaccc cagggacaag aagagcaaga acggcaagct 120
gcggttctc tacgagtgcg ccccatgag cttcatcgtg agcaggccgg tggcaagggc 180
tctgacggcc accagagaat tcttgacatc acacctacag agatccacca aagagtgcct 240
ctgtacattg ggagcgtgga ggaagtggac aaggtggaga attcctggct tg 292

<210> 242
<211> 277
<212> DNA
<213> Zea mays

<400> 242

cgcgctctgg gacgacaaac tgaagctgta catggacagc ctcaaggagc ccggcgactc 60
ggggaagccc tactccgcgc ggtacatcgg cagcctcgtc ggcgacttcc accgcactct 120
tctctacgga gggatctacg ggtaccccag ggacaagaag agcaagaacg gcaagctgcg 180
gcttctctac gagtgcgccc ccatgagctt catcgtcgag caggccggtg gcaagggctc 240
tgacggccac cagagaattc ttgacatcac acctaca 277

<210> 243
<211> 268
<212> DNA
<213> Zea mays

<400> 243

cgggtaccca gggacaagaa gagcaagaac ggcaagctgc ggcttctcta cgagtgcgcc 60

cccatgagct tcatcgtcga gcaggccggt ggcaagggct ctgacggcca ccagagaatt 120
 cttgacatca cacctacaga gatccaccaa agagtgcctc tgtacattgg cagcgtggag 180
 gaagtggaca aggtggagaa attcctggct tgaatgccag agctctctca tcagatggac 240
 tcccgaagac atcaagttta gggaggga 268

<210> 244
 <211> 324
 <212> DNA
 <213> Zea mays

<220>
 <221> unsure
 <222> (1)..(324)
 <223> unsure at all n locations

<400> 244

gagaccgcga gagtgtacgt gccaccagga gcagcagcag caatggccgc cgccgccacc 60
 acctctcat cctcccactt gctcctctc tcccgccagc agngggcctc cctacgatgc 120
 cgcctctcct tcctcggcca gcccagaagg cccggcaggg tcacggccca ggcgccggcc 180
 gctaaggacg tgcggtgcat ggcggccgtg gacactactg cggcgtccac ggcggcggcg 240
 gagacgagcc ccaagtcgag cagctacgag atcgtgacgc tcacgacgtg gctgctgcag 300
 caggagcgga ccggcgcgat cgac 324

<210> 245
 <211> 267
 <212> DNA
 <213> Zea mays

<400> 245

gagagtgtac gtgccaccag cagcagcagc agcagcaatg gccgccgccg ccgccacctc 60
 ctcatctctc cacctgctcc tcctctcccg ccagcaggcg gcctccctac gatgccgcct 120
 ctcttctctc ggccagccca gaaggcccg cagggtcacg gcccaggcgc cggccgctaa 180
 ggacgtgcgg tgcattggcg ccgtggacac tactgcggcg tccacggcg cggcggagac 240
 gagccccaag tcgagcagct acgagat 267

<210> 246
 <211> 310

<212> DNA
 <213> Zea mays
 <400> 246
 gtgtacgtgc cacaagcagc agcagcagca gcaatggccg ccgccgccgc cacctcctca 60
 tcctcccacc tgctcctcct ctcccgccag caggcggcct ccctacgatg ccgcctctcc 120
 ttctctggcc agcccagaag gcccggcagg gtcacggccc aggcgccggc cgctaaggac 180
 gtgcggtgca tggcggccgt ggacactact gcggcgtcca cggcgccgga ggagacgagc 240
 cccaagtcga gcagctacga gatcgtgacg ctacgcacgt ggctgctgca gcaagagcgg 300
 accggcgcca 310

<210> 247
 <211> 255
 <212> DNA
 <213> Zea mays
 <400> 247
 ccggaacccc gagtcccgcg gcgacttcac atccttctct ccacatcgt cctcggctgc 60
 aagttcgtcg cctccgccgt caacaaggcc gggctcgccc agctgatcgg gtcgccggc 120
 gagaccaacg tgcagggaga ggagcagaag aagctggacg tcctgtccaa cgaggtgttc 180
 gtcaaggccc tcgtcagcag cggtcgcacc tccgtccttg tgtccgagga ggcgaggaag 240
 caacgttcgt ggacc 255

<210> 248
 <211> 313
 <212> DNA
 <213> Zea mays
 <400> 248
 gggatgtgcc tacagccaaa ttcgtgaaga aatgcaagta tcctgaggat gggttcaccgc 60
 ctagatcctt gagatatatc ggaagtatgg ttgctgatgt ccatcgcacc ttactatacg 120
 ggggcatatt tttgtacca gcagaccaga agagtccaaa cgggaaacta cgcgttctgt 180
 atgaagtctt cccgatgtca ttcctgatgg aacaagctgg aggccaggct ttcacaggca 240
 aacaacgggc ccttgaactt gctcccgcta aacttcacga cagatcccca gtgttctctg 300
 ggagctacga tga 313

<210> 249
 <211> 272
 <212> DNA
 <213> Zea mays

 <400> 249

 cttgtggtcc ttgtgaatgg tttgcagtat ggttgctgat gtccatcgca ccttactata 60
 cgggggcata tttttgtacc cagcagacca gaagagtcca aacgggaaac tacgcgttct 120
 gtatgaagtc ttcccgatgt cattcctgat ggaacaagct ggaggccagg ctttcacagg 180
 caaacaacgg gcgcttgaac ttgctcccgc taaacttcac gacagatccc cagtgttctt 240
 cgggagctac gatgacgttg aggagatcaa ag 272

<210> 250
 <211> 242
 <212> DNA
 <213> Zea mays

 <400> 250

 caagtatcct gaggatggtt caccgcctag atccttgaga tatatcgga gtatggttgc 60
 tgatgtccat cgcaccttac tatacggggg catatTTTTTg taccagcag accagaagag 120
 tccaaacggg aaactacgcg ttctgtatga agtcttcccc atgtcattcc tgatggaaca 180
 agctggaggc caggctttca caggcaaaca acgggcgctt gaacttgctc ccgctaaact 240
 tc 242

<210> 251
 <211> 384
 <212> DNA
 <213> Zea mays

 <400> 251

 agactaaagc atagtatcat cagcaagggg gcccctttct gtaccagagc ctcagatcgt 60
 gatttcgtca taagccacgc tgaattttat gccgtttcag attcgtggat aagtgaagt 120
 atcctgaaga tggttcaccg cctagatccc tgagatatat cggtagtatg gttgctgatg 180
 tccatcgac cttactagac gggggcatat ttttgtacct agcagaccag aagagtccag 240
 acgggaaact acgcgttctg tatgaagtct tcccgatgtc attcctgatg gaacaagctg 300

gaggccaggc ttccacaggc aaacaaaggg tgtgtttcag ttccccgttc tcagacccca 360
atccccaact gaaaaatctt gatg 384

<210> 252
<211> 337
<212> DNA
<213> Zea mays

<220>
<221> unsure
<222> (1)..(337)
<223> unsure at all n locations

<400> 252

atggtcttnn ccaggttcac gnacgnatga tcacatcatt gatggaatta ccggactcga 60
cccatcgcgt caggccacgc gtacagcatc tcgctagctt ttcttatgca ttcagatcct 120
ctctctacaa gagaagttct taagcaagat ggaccgcccg gcagacacac acctgactga 180
cctgatgacc atcactcagg tcattcttaa ctaacaaatc ccttacctct attgccgcta 240
ctacttcacc attctgctct accacatcat cctatgctac aagtatatca cctccgtcag 300
tcaacaaggc cgagctctcc cagctcatct gactcac 337

<210> 253
<211> 221
<212> DNA
<213> Zea mays

<400> 253

cccacgcgtc cgcggcgcca tcgacaacga gatgaccatc gtgctggcca gcatatccac 60
ggcgtgcaag cagatcgagg cgctggtgca gcgcgcgcc atctccaacc tcacgggcgt 120
tcacggcgcc gtcaacgtgc atggcgagga ccagaagaag ctcgatgtcg tctccaacga 180
ggtgttctcc aactgcctca agtcgagcgg gcgcaccggc g 221

<210> 254
<211> 459
<212> DNA
<213> Zea mays

<220>
<221> unsure

<222> (1)..(459)
 <223> unsure at all n locations
 <400> 254
 cacgggcggtt cagggcgccg tcaacgtgca gggcgaggac cagaagaagc tcgatgtcgt 60
 ctccaacgag gtgttctcca actgcctcaa gtcgagcggg cgcaccggcg tgatcgcttc 120
 ggangaggaa ngaacttccc gttacgggtg gagcaagaac taactcccgg gaaactaaca 180
 atccgtncgt ntttcaacct nctcgaangg ctctcaaaa atcaacnccg cggttctcna 240
 cggggcncna tcttcggnat ctacaacccc aacnattnan tgcctcgccg anttnancaa 300
 naatnanacc ctnaatncgt tgaacaaaag ntnaatcttn aacttttgca anccggggaa 360
 ccanctngct ggcccnccgg gnaactgcat ttanncaacc tcggtgnntt ntccggctaa 420
 centtggnac cgggggttta ncttntttna cctggaccc 459

<210> 255
 <211> 422
 <212> DNA
 <213> Zea mays

<220>
 <221> unsure
 <222> (1)..(422)
 <223> unsure at all n locations

<400> 255
 ccatcgtgct ggccagcata tccacggcgt gcaagcagat cgcggcgctg gtgcagcgcg 60
 cgcccatctc caacctcagc ggcgttcagg gcgccgtcaa cgtgcagggc gaggaccaga 120
 agaagctcga tgctgtctcc aacgaggtgt tctccaactg cctcaagtcg agcgggcgca 180
 ccggcgtgat cgcctcggag gaggaggacg tgcccgtagc ggtggagcag agctactccg 240
 gcaactacat cgtcgtgttc gaccctctcg atggctcttc caacatcgac gccgccgtct 300
 ccaactggctc catcttcggc atctacaacc ccaacgatga gtgcctcgcc gacgtcgacg 360
 acaatgacac ccttgattcg ggtggagcan aggtgcatcg tgaacgtgtn ccaaccgggg 420
 ga 422

<210> 256
 <211> 419
 <212> DNA

<213> Zea mays

<400> 256

ctcaagtcga gcgggcgcac cggcgtgac gcctcggagg aggaggacgt gcccgtagcg 60
gtggagcaga gctactccgg caactacatc gtcgtgttcg accctctcga cggctcctcc 120
aacatcgacg ccgccgtctc cactggctcc atcttcggca tctacaaccc caacgacgag 180
tgccctgccg acgtcgacga caatgacacc gtgagtgcga attaattctca tctcccttac 240
cttctttctg ttctgactgg ctcatcactg gacaattcta tctccaacac tacactacgt 300
acgtacgcgc gcgcagcttg attcgggtga gcagaggtgc atcgtgaacg tgtgccagcc 360
ggggagcaac ctgctggccg ccggctactg catgtactcg agctcgggtga tcttcgtgc 419

<210> 257

<211> 430

<212> DNA

<213> Zea mays

<400> 257

gaccgcgaga gtgtacgtgc caccaggagc agcagcagca atggccgccg ccgccaccac 60
ctctcatcc tcccacttgc tctactctc ccgccagcag gcggcctccc tacgatgccg 120
cctctccttc ctcggccagc ccagaaggcc cggcagggtc acggcccatg cgcggccgc 180
taaggacgtg cgggtcatgg cggccgtgga cactactgcg gcgtccacgg cggcggcgga 240
gacgagcccc aagtcgagca gctacgagat cgtgacgctc acgacgtggc tgctgcaaca 300
ggagcggacc ggcgcgatcg acaacgagat gaccatcgtg ctggccagca tatccacggc 360
gtgcaagcag atcgcggcgc tgggtgcagc cgcgcccatc tacaacctga cgggcgttca 420
gggcgccgtc 430

<210> 258

<211> 313

<212> DNA

<213> Zea mays

<400> 258

accacgcgtc cgcacacgcg tccgagtgga caaggtggag aaattcttga catcacacct 60
acagagatcc accaaagagt gcctctgtac attgggagcg tggaggaagt ggacaagggtg 120

gagaaattcc tggcttgaat gtccctgctt catgccagag ctctctcatc agatggactc 180
 cccaagacat caagtttagg gaggggaatat gtactctctc tttcccaccc caaataagtc 240
 ttcttctgtct catatttoga taaatcaaac aatctcaatt ttgatctaata atatacacac 300
 aacattaata ttt 313

<210> 259
 <211> 296
 <212> DNA
 <213> Zea mays

<400> 259

gctgcgtcgt gccttcgcag cacgaatcgc tggatttcaa gtttgttttg aagcgaaaag 60
 gtgataatcc tcaatacatt attgaggagg gacctaaccg accattgggt tgccagagaa 120
 atgaatttga gatggggaat gcgttggtta aactcaacga agggaaggag gtacttgagt 180
 gcaaggttca gggtgagaca gaaatgttat cccaattga cttggcggt agttggagag 240
 ctcatcagga gtattttcag ccttcaaggg tgcgggggac tcacgatgtc actatc 296

<210> 260
 <211> 298
 <212> DNA
 <213> Zea mays

<400> 260

caaaaggggc tgttcgttga caggggtgtt ggctcttcta tgcttccaaa atcagccagt 60
 gcatgctcct tggcatctgg gtttagtttt ggatcagcaa agacaatgcc agaagcagca 120
 ggagctgttg cagctgcagc tgtagctgat cgtttgcatg ggtcaaagga ggaccggaag 180
 ctggccattg ttttggttgg cctaccagct cgtggtaaaa ccttcactgc agttaagctt 240
 acaaggtacc ttcgttggtt gggccatgaa actagacatt tcaatgttgg gaagtatc 298

<210> 261
 <211> 325
 <212> DNA
 <213> Zea mays

<400> 261

gcgcctcgc catggaaagg gagctcgcgt ccatgtgggt gctcagcttc gtcgtgccgc 60

cggaccatga aacactggac ttcaagttct tgctgaagcc caaagacgct gaaaccccgt 120
 gcatcatcga ggaaggaccc acacggctcc tcaccggagg catgctagag ggtgatgtga 180
 gggttgcact gttcaagctc aatggagatg atgaggtgct cgagtttggg gtggtcaaca 240
 aggcggacct tgtatcacccg cttgaacttg ctgcaagctg gaggggtgtac aaggagaact 300
 ttcagccttc caaagttcgg gggat 325

<210> 262
 <211> 245
 <212> DNA
 <213> Zea mays

<400> 262

cccacgcgtc cgagtgtgtg atgggatgac ttatgaagag ataaagaaaa tcatgcccga 60
 ggaatttgag tcacgaaaga aggacaagct aagataccgc taccctcgtg gagaatctta 120
 cctcgatgtg atacagagggc tggaaccctg catcatcgag ctagaacgcc agcgtgcacc 180
 agtggttgtc atatctcatc aggctgtact gcgagcactg tatgcatatt tcgcggaccg 240
 tcctt 245

<210> 263
 <211> 268
 <212> DNA
 <213> Zea mays

<400> 263

cccacgcgtc cgcaacaaag tcctgattat gcagagcaaa cagattttga agctggtgta 60
 caagatttca aagagcgatt gacctattat gaaaaggctc atgaaccggg ggaagaagg 120
 tcttacataa aatgattga catggttagt ggggaagggg gccaaactaaa gattaatgac 180
 ataagtgggt acttgccctg acggatcggt ttctttcttg gtaactgtca tctgacacct 240
 cgtcctatcc tgctaacaag acatggtg 268

<210> 264
 <211> 280
 <212> DNA
 <213> Zea mays

<400> 264

aaactcaacc ggagatggcg agctctggcg gaatctccga ccagctcttc gtctccgtca 60
agttagagag cccgcacctc gcggagctcg acctcgcccc ccacctcttc ggctcccacc 120
ctgtggctgg ctctgtgggac ccttgaagg ccttgccttt ggagcgggcg gccaccgccg 180
tgtgggagtt cagctgcgtc gtgccttcgc agcacgaatc gctggatttc aagtttgttt 240
tgaagcgaaa aggtgataat cctcaataca ttattgaggg 280

<210> 265
<211> 302
<212> DNA
<213> Zea mays

<400> 265

cttgtcccta ggttgggtata tttgacgcaa caaacagcac aagaaagcga agatatatgc 60
taatgaaaat ggctgaaggt aactgtaaga ttatatTTTT ggagacaata tgtaatgatc 120
caaacataat tgaagaaaac atacggctga agatccaaca aagtccagac tatgctgaac 180
agctagatta tgaagctgga ctggaggact tcaaggaacg tttgattaat tatgaaaagg 240
tctacgagcc agtaggggaa ggttcttaca tcaaaatgat tgacatggta aaggggcaag 300
at 302

<210> 266
<211> 314
<212> DNA
<213> Zea mays

<400> 266

ggaagaatcg gtggagactc ttctttgagt gaggccggtg agctttattc aaggaagctt 60
gcgagctttg tggagaagcg actgaaatcc gagcggactg cctctatatg gactagcaca 120
ctccagagaa caatattaac agcacatcgg atcattggat ttccaaagat acaatggcgt 180
gctcttgatg agatcaatgc tggggtctgt gatgggatga catacgatga aataaagaaa 240
agtaaacctg aagaatatga atcacgaaga taagacaagc tgaggtatcg ttatccgaga 300
gggagatcct atct 314

<210> 267
<211> 320
<212> DNA

<213>	Zea mays	
<220>		
<221>	unsure	
<222>	(1) .. (320)	
<223>	unsure at all n locations	
<400>	267	
ctcatgtaga	tgcgactaca	caccatagtc
gagatacaaa	tgggcgtcac	gggtgtggaa
60		
gagaagaggt	acaaactcat	ggactgagtg
agtacatagg	agcagctact	tgggtgtgtc
120		
atacatcgag	tacacataac	acagaagcgt
ttgcccttct	ctctctctcc	acacggtggt
180		
cagtgttaatt	gctctggaaa	agagacatgt
tgaacattgt	aaaggaaaaa	ctaataaggg
240		
actgtaaaag	tggcatgcgt	actgtaacgg
ataaangata	cagactgggg	tgctcaatgc
300		
ttattcagag	catattcgtc	
320		
<210>	268	
<211>	265	
<212>	DNA	
<213>	Zea mays	
<400>	268	
gtgatgggat	gacatacgat	gaaataaaga
aaagtaaacc	tgatgaatat	gaatcacgta
60		
gaaaagacaa	gctgaggcat	cgttatccga
gaggagaatc	ctatcttgac	gtcattcaaa
120		
gactagaacc	tgtgataatt	gaacttgaac
gacagcgtgc	tccagttgta	gtcatagctc
180		
accaggctgt	gttgagagca	ctttatgcat
actttgcgga	caaaccgctt	gaggaagtcc
240		
caaatattga	gatacctgta	catac
265		
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<211>	253	
<212>	DNA	
<213>	Zea mays	
<400>	269	
ggtcagttac	aggtaaataa	tatcagcggg
tatctccctg	ggaggattgt	cttcattcttg
60		
gtgaactctc	atcttacacc	acgacctatt
ttgcttacca	ggcatgggtga	gagtttacat
120		
aatgttagag	gaagagtcgg	tggtgataca
gttctaagtg	aaactggcga	actttatgca
180		
aaqaaaactag	ccaactttat	aqaaaagcgg
ctcaaattgtg	aqaaaacagc	aactatatgg
240		

accagtaccc ttc

253

<210> 270

<211> 260

<212> DNA

<213> Zea mays

<220>

<221> unsure

<222> (1)..(260)

<223> unsure at all n locations

<400> 270

gaaaagggtct acgagccagt aggggaaggt tcttacatca aaatgattga catggtaaag 60

gggcaagatg gtcagttaca ggtaaataat atcagcgggt atctccctgg gaggattgtc 120

ttctttcttgg tgaactctca tcttacacca cgacctatct tgcttaccag gcatgggtgag 180

agtttacata atggttagagg aagagtcggt ggtgatacag ttctaagtga nactggcgaa 240

ctttatgcaa agaaactagc 260

<210> 271

<211> 243

<212> DNA

<213> Zea mays

<400> 271

cgggtgtgga agagaagagg taaaaactca tggactgaat gaatacataa aagcagctgg 60

ttggctgttt catacagcaa gtacacataa cacagaagcc tttcccttc tctctctctc 120

tccacacggt gttcagtgtg atttctttgg aaaaaagaca tggtgaacat tgtaaagaaa 180

aaactaataa ggaactgtaa aaatggcatg cttactgtaa cgaataggga atacagactg 240

ggg 243

<210> 272

<211> 400

<212> DNA

<213> Zea mays

<400> 272

ccgactcgta cgtcatgcaa caaaaccctt taatgatgga aagtacctcc cggttcaggt 60

gggacctata aactgggttat tttttcgcga ctacaggaag gtgtggaagt acttcacgaa 120
 gttgattgct tagcaactgg aagatatgct atcattgatg cactaagggtg gaacggttga 180
 attatcgatg ccacatacag cacacgaata ccgaagaaca tgctgatgaa aatggctgaa 240
 ggaaaatgtc agatcatatt tctgtgaaca ctatgtaatg accaacaatgt tcttgagaga 300
 actatacaat cgaaagttca acaaagacct gactatgcat agcatacaga atatgaagct 360
 ggcgtacaag atttcaaata ccgattggcc tattatgaaa 400

<210> 273
 <211> 454
 <212> DNA
 <213> Zea mays

<400> 273

gacctttaca gcagctaaac ttacaagata tctccgatgg ttaggtcatg aaacaaaaca 60
 cttcaatggt ggaaagtacc gccggctcaa gcatggaact aatcagactg ctgatttctt 120
 tcgtgggatg aacagggagg gtgtggaggc acgtaacgag gtggctgcat tagcaatgga 180
 agatatgcta tcttgatgac aggaggggtg tcagggttgg attttcgatg ccacaaacag 240
 cacaagaata cggaggaaca tgctgatgaa aatggctgaa ggaaaatgta agatcatctt 300
 tttggaaaca ttatgtaatg accaagatgt tcttgagaga aatatacgat tgaaagttca 360
 acaaagtcct gattatgcag agcaaacaga ttttgaagct ggtgtacaag atttcaaaga 420
 gcgattgacc tattatgaaa aggtctatga accg 454

<210> 274
 <211> 442
 <212> DNA
 <213> Zea mays

<400> 274

atggggaatg cgttgtttaa actcaacgaa tggaaggagg tacttgagtg caaggttgag 60
 gtggagacag aaatgttata cccatttgac ttggcggcta gttggagagc tcatcaggag 120
 tattttcagc cttcaagggt gcgagggact cacgatgtca ctatcaaccc tggggttagaa 180
 ggcagggcca agaatggctt cgcttctggt ttgaagcttg atttagacaa gtatgtagtt 240
 ccaacaccaa acatgggctc aggtgttggt tatgcagcta gtttgactga aaatccacgc 300

tcattattgc aaactgcgag ttcctcatac aatgatacca caaaggacat tttgcacaac 360
tcaactaaag gcgattcatc cttgaatcac tatgttaaca ctatgaagag cacaattgga 420
gggcatgcat cgtcactgga ag 442

<210> 275
<211> 403
<212> DNA
<213> Zea mays

<400> 275

atgtatgcat atttcgcagt ccgtcctttg agagaagttc cagagatata gatgccacta 60
gacaccataa tcgagatata aatgggcgtc actgggtgtgg aagagaagag gtacaaactc 120
atggactgaa tgaatacata aaagcagctg gttggctgtt tcatagagca agtacacata 180
acatagaagc cttttccctt ctcactctct ctccacacgg tgttcattgt aatttctttg 240
gaaaaaagac atgttgaaca atgtaaacaa acaactaata acgaactgta cgaatggcat 300
gcttactgta acgaataacg aatacatact gggggtcacc aatgcgtagt cagaaacata 360
ttccgtcaaa gaacatagcg aaatgctgca gaagaaacgc ccg 403

<210> 276
<211> 300
<212> DNA
<213> Zea mays

<400> 276

gatttattga caacaccgat cctgctggga ttgatcatca aattgctcaa ctaggacctg 60
aactggcaac tactcttgta attgtcattt ctaagagcgg aggcacacct gaaacccgca 120
atgggtctact agaagtacag aaagccttca gagatgcggg gctgcaattc tcgaaacagg 180
gtgttgcaat tactcaagaa aattctctgt tggataaacac tgctagaata gagggatggt 240
tagctcggtt tcctatgttt gattgggttg gtggtaggac ttcagaaatg tctgctgtgg 300

<210> 277
<211> 208
<212> DNA
<213> Zea mays

<400> 277

cgccaacccc gacgaggggc gcatggtggg ccactactgg ctccgcgacc cgccctcgc 60
 tcccaactcc ttcctccgga acaagatcga gaccgcactc gacaaaatcc tcgccttctc 120
 ccaagatgtc atctctggaa agattctttc cccatctggt cgtttcactt caattctctc 180
 tataggaatc ggaggggtcag ctttgggc 208

<210> 278
 <211> 267
 <212> DNA
 <213> Zea mays

<400> 278

cccacgcgtc cgataacact gccagaatag agggatggtt agctcggttt cctatgtttg 60
 actgggttgg tggtaggact tcagaaatgt cagctgttgg ttacttcca gctgcattgc 120
 agtgtattga tatcaaggaa atgctatttg gtgcagcttt aatggatgag gaaacccgga 180
 aactgtggt taaagcaaat ccagcagcat tgcttgcatt atgttggtat tgggcatcgg 240
 aagggatagg caaaaaggat atggttg 267

<210> 279
 <211> 258
 <212> DNA
 <213> Zea mays

<400> 279

agcttctcgc ttttttaacc acagttgtca acctaactgt cggctggaga aatggaatca 60
 gagggctctgc ttatgggcct caatttggtg ctaaaccact tgcacctgat aaccctccac 120
 tgaaggtaag atttattgac aacatcgatc ctggtgggat tgatcatcaa attgctcaac 180
 taggatctca actggcaact agctactctt gtaattgtca tttctaagaa cacttgaggg 240
 agggggaact gctgaagc 258

<210> 280
 <211> 229
 <212> DNA
 <213> Zea mays

<400> 280

gcagaatgtg aacagggcca caactgggat tccttgaaat gttgatccag ttgacgttgc 60

acgaagcatt aaagatttgg atccagaaac cactctggtg gtggctgtat caaagacatt 120
 cacaacagct gaaacaatgt taaatgctcg aactcctaag gagtggatcg tttcttctct 180
 tgggacacag gctgttgcca tacatatgat tgctgtcagc actaatctt 229

<210> 281
 <211> 337
 <212> DNA
 <213> Zea mays

<400> 281

aggttggaca gcttttatcc atctatgagc accggattgc agttcagggc ttcatatggg 60
 gaattaactc atttgaccca tggggagtgg acctagggaa gtcactcgct tctcaagtga 120
 ggaaacagct gcatggaacc cggatggaag gaaagcctgt tgagggtttt aaccacagca 180
 cttcaagttt gcttgcacga tatcttgctg tcaagccatc caccctgtat gatactaccg 240
 tgctgccgaa ggtgtaatta ctcagttggt tttgacatgc caattgctga gctctgactt 300
 ggcaagggtg agcataagtc tttcttcatt ttggggag 337

<210> 282
 <211> 248
 <212> DNA
 <213> Zea mays

<400> 282

gcggggctgc aattctcgaa acagggtggt gcaattactc aagaaaattc tctggttgat 60
 aacactgcta gaatagaggg atggttagct cggtttcta tgtttgattg gggttggtgg 120
 aggacttcag aaatgtctgc tgtgggttta cttccagctg cattgcaggg tattgatatc 180
 aaggaaatgc tagctggtgc agctttaatg gatgaagaaa cccggaacac tgtggttaaa 240
 gaaaatcc 248

<210> 283
 <211> 288
 <212> DNA
 <213> Zea mays

<400> 283

gttgcaatca ctcaagaaaa ttctctgttg gataaactg ccagaataga gggatgggta 60

gctcgggtttc ctatgtttga ctgggttggt ggtaggactt cagaaatgtc agctgttggt 120
 ttacttccag ctgcattgca ggggtattgat atcaaggaaa tgctagttagg tgcagcttta 180
 atggatgagg aaaccgga cactgtggtgta tcacattatt aataacacgg acaacttgca 240
 gtgatggcat gattatctat atgtgtcatg tcaacatggt tatctttt 288

<210> 284
 <211> 243
 <212> DNA
 <213> Zea mays

<400> 284

tgatgcgggt ctgcaattct cgaaacaggg tgttgcaatc actcaagaaa attctctggt 60
 ggataacact gccagaatag agggatgggt agctcggttt cctatgtttg actgggttggt 120
 tggtaggact tcagaaatgt cagctgttggt tttacttcca gctgcattgc aggggtattga 180
 tatcaaggaa atgctagttag gtgcagcttt aatggatgag gaaaccgga acactgtggt 240
 taa 243

<210> 285
 <211> 235
 <212> DNA
 <213> Zea mays

<400> 285

cagaaagcct tcagagatgc agggctgcaa ttctcgaaac aggggtgttg aattactcaa 60
 gaaaattctc tgttgataa cactgctaga atagagggat ggtagctcg gtttcctatg 120
 tttgattggg ttggtggtag gacttcagaa atgtcagctg tgggtttact tccagctgca 180
 ttgcagggtg ttgatatcaa ggaaatgcta gctggtgcag cttaaatgga tgagg 235

<210> 286
 <211> 296
 <212> DNA
 <213> Zea mays

<400> 286

cgacagaatc ctgccttct ctcaagatgt cgtctctgga aagattcttt ccccatctgg 60
 tcgtttcact tcaattctct ctataggaat cggagggtca gctttgggcc ctcaatttgt 120

tgctgaggca cttgcgcctg ataaccctcc actgaagata agatttattg acaacaccga 180
 tcctgctggg attgatcatc aaattgctca actaggacct gaactggcaa ctactcttgt 240
 aattgtcatt tctaagagcg gaggcacacc tgaaacccgc aatgggctac tggaag 296

<210> 287
 <211> 228
 <212> DNA
 <213> Zea mays

<400> 287

gaaagattct ttccccatct ggtcgtttca cttcaattct ctctatagga atcggagggt 60
 cagctttggg ccttcaattt gttgccgagg cacttgcacc tgataaccct ccaactgaaga 120
 taagatttat tgacaacaca gatcctgctg ggattgatca tcaaattgct caactaggac 180
 ctgaactggc aactactcgt gaaagtgaca tttctaagag cggcggca 228

<210> 288
 <211> 304
 <212> DNA
 <213> Zea mays

<400> 288

cccacgcgtc cgccgcactc gacagaatcc tcgccttctc tcaagatgtc gtctctggaa 60
 agattctttc cccatctggg cgtttcactt caattctctc tataggaatc ggagggtcag 120
 ctttggggcc tcaatttggt gctgaggcac ttgcgcctga taaccctcca ctgaagataa 180
 gatttattga caacaccgat cctgctggga ttgatcatca aattgctcaa ctaggacctg 240
 aactggcaac tactcttgta attgtcattt ctaagagcgg aggcacacct gaaacccgca 300
 atgg 304

<210> 289
 <211> 273
 <212> DNA
 <213> Zea mays

<400> 289

ctttatgcaa atgaccggga gtctatctct gttactgtgc aagaggtaac tcctagagct 60
 gttggagcac tgattgcact ttatgaacgt gctgtgggga tttatgcttc tttggtaa 120

atcaatgcct atcatcagcc tgggtgttgag gctgggaaaa aggagcagg agaagtattg 180
gcccttcaga aaagggttct gactgtatta aaggaggcca tctgcgagaa ccctactgag 240
ccattgactc tagatgaaat tgcagatcgc tgc 273

<210> 290
<211> 322
<212> DNA
<213> Zea mays

<400> 290

ctatcatcaa cctggtgttg aggctgggaa aaaggcagca ggagaagtgt tggcccttca 60
gaaaaggggtg ctgactgtat taaatgaggc aacctgcaag gacccttgtg agccattgac 120
tatagatgaa attgcagatc gctgccattg ccctgaagat attgagatga tctacaaaat 180
agtccagcac atggctgcta acgacagagc aatcatagca gaaggcagct gtggctctcc 240
tcgcagcggtt aaggtgtacc tcggtgaatg caatgtagac gaagacttgc aggccgcgta 300
ggttccgagc ctggatccgt gt 322

<210> 291
<211> 264
<212> DNA
<213> Zea mays

<400> 291

atcaacctgg tgttgaggct gggaaaaagg cagcaggaga agtgttggcc cttcagaaaa 60
gggtgctgac tgtattaaat gaggcaacct gcaaggaccc ttgtgagcca ttgactatag 120
atgaaattgc agatcgctgc cattgccctg aagatattga gatgatctac aaaatagtcc 180
agcacatggc tgctaacgac agagcaatca tagcagaagg cagctgtggc tctcctcgca 240
gcgttaaggt gtacctcggt gaat 264

<210> 292
<211> 310
<212> DNA
<213> Zea mays

<400> 292

cggacgcgtg gtttgagtag atatttgcaa caacttgtca tggaatctct tggaaaagaa 60

ttcgacctgg atggcaaccg tgттаатсaa gggctaactg tatatggtaa caaaggaagc 120
 actgaccagc atgcttacat tcagcagctg agagaaggctg tacaaaactt ctttggtacg 180
 tttattgagg tcttgcgta caggcctgct ggacatgatt ggagacttga acctggagtc 240
 acgtgtggtg actatттgtt tgggatgттg cagggaaacc gttctgctct ttatgcaaat 300
 gaccgggagt 310

<210> 293
 <211> 295
 <212> DNA
 <213> Zea mays

<400> 293

gttgcttttg agtagatatt tgcaacaact tgtcatggaa tctcttggga aagaatttga 60
 tctggatggc aaccgggtaa atcaagggt atctgtatat ggaaacaaag gaagtactga 120
 ccagcacgct tacattcagc agctgagaga aggtgtacac aacttctttg ttacttttat 180
 cgaggctctg cgtgacaggc ctgctggтca tgattgggag cttgaacctg gagtсacatg 240
 tggtgactat ttgtttggga tgттgсaggg aacacgttct gctctttatg caaat 295

<210> 294
 <211> 293
 <212> DNA
 <213> Zea mays

<400> 294

acaaaggaag cactgaccag cacgcttaca ttcagcagct gagagaaggт gtacacaact 60
 tctttgttac ttttatcgag gtcttgсtg acaggcctgc tggтcatgat tgggagcttg 120
 aacctggagt cacatgtggт gactatттgt ttaggatgтт gcagggaaca cgtтctgctc 180
 tttatgcaaa tgaccgtgaa tctatctctg ttactgtgca agaggtaact cctagagctg 240
 ttggagcact ggttgсactt tatgaacgtg ctgtggggct ttatgctтct ttg 293

<210> 295
 <211> 281
 <212> DNA
 <213> Zea mays

<400> 295

ggtgtacaaa acttctttgt tacgtttatt gaggtcttgc gtgacaggcc tgctggacat 60
 gattgggagc ttgaacctgg agtcacgtgt ggtgactatt tgtttgggat gttgcaggga 120
 acccgttctg ctctttatgc aaatgaccgg gagtctatct ctgttactgt gcaagaggta 180
 actcctagag ctggtggagc actgattgca ctttatgaac gtgctgtggg gatttatgct 240
 tctttggtaa atatcaatgc ctatcatcag cctgggtgtt a 281

<210> 296
 <211> 263
 <212> DNA
 <213> Zea mays

<400> 296

ccggaacact gtggttaaag aaaatccagc agcattgctt gcattatggt ggtattgggc 60
 atcagaaggg ataggcaata aggatatggt tgtacttcct tacaaggata gtttgttgct 120
 tttgagtaga tatttgcaac aacttgtcat ggaatctctt gggaaagaat ttgatctgga 180
 tggcaaccgg gtaaatacaag ggctatctgt atatggaaac aaaggaagca ctgaccagca 240
 cgcttacatt cagcagctga gag 263

<210> 297
 <211> 300
 <212> DNA
 <213> Zea mays

<400> 297

cggacgcgtg gtgctagctg gtgcagcttt aatggatgag gaaaccgga aactgtggt 60
 taaagaaaat ccagcagcat tgcttgcatt atgttgctat tgggcatcag aagggatagg 120
 caataaggat atggttgtagc ttccttaciaa ggatagtttg ttgcttttga gtagatattt 180
 gcaacaactt gtcattggaat ctcttgggaa agaatttgat ctggatggca accgggtaaa 240
 tcaagggcta tctgtatatg gaaacaaagg aagcactgac cagcagcgtt acattcagca 300

<210> 298
 <211> 313
 <212> DNA
 <213> Zea mays

<400> 298

cccacgcgtc cgcccacgcg tccgggggat tgatatcaag gaaatgctag ctggtgcagc 60
 tttaatggat gaagaaaccc ggaacactgt ggttaaagaa aatccagcag cattgcttgc 120
 attatgttgg tattgggcat cagaagggat aggcaataag gatatggttg tacttcctta 180
 caaggatagt ttgttgcttt tgagtagata tttgcaacaa cttgtcatgg aatctcttgg 240
 gaaagaattt gatctggatg gcaaccgggt aaatcaaggg ctatctgtat atggaaacaa 300
 aggaagtact gac 313

<210> 299
 <211> 298
 <212> DNA
 <213> Zea mays

<400> 299

gatagtttgt tacttttgag tagatatttg cctatccctt ccgatgccca ataccagcag 60
 cattgcttgc attatgttgg tattgggcat cggaagggat aggcaaaaag gatatggttg 120
 tgcttcctta taaggatagt ttgttacttt tgagtagata tttgcaacaa cttgtcatgg 180
 gatctcttgg aaaagaattc gacctggatg gcaaccgtgt taaacaaggg ctaactgtat 240
 atggtaacaa aggaagcact gaccagcatg cttacattca gcagctgaga gaaggtgt 298

<210> 300
 <211> 274
 <212> DNA
 <213> Zea mays

<400> 300

gaggtcttgc gtgacaggcc tgctggatcat gattgggagc ttgaacctgg agtcacgtgt 60
 ggtgactatt tgtttgggat gttgcaggga acccgttctg ctctttatgc aaatgaccgg 120
 gagtctatct ctgttacgtg caagaggtaa ctccatagagc tgttggagca ctgatttcac 180
 tttatgaacg tgctgtgggg atttatgctt ctttggtaaa tatcaatgcc tatcatcagc 240
 ctggtgttga ggctgggaaa aaggcagcag gaga 274

<210> 301
 <211> 284
 <212> DNA
 <213> Zea mays

<400> 301

cagctgcatt gcaggggtatt gatatacaagg aaatgctagc tgggtgcagct ttaatggatg 60

aggaaacccg gaacactgtg gttaaagaaa atccagcagc attgcttgca ttatgttggg 120

attgggcatc agaaggata ggcaataagg atatggttgt acttccttac aaggatagtt 180

tgttgctttt gagtagatat ttgcaacaac ttgtcatgga atctcttggg aaagaatttg 240

atctggatgg caaccgggta aatcaaggct atctgtatat ggaa 284

<210> 302

<211> 306

<212> DNA

<213> Zea mays

<400> 302

cggacgcgtg gtgctagctg gtgcagcttt aatggatgag gaaacccgga aactgtggg 60

taaagaaaat ccagcagcat tgcttgcatc atactgggtat tgggcatcag aagggatagg 120

caataaggat atggttgtac ttccttaciaa ggatagtttg ttgcttttga gtagatattt 180

gcaacaactt gtcattggaat ctcttgggaa agaatttgat ctggatggca accgggtaaa 240

tcaagggtta tctgtatatg gaaacaaagg aagcactgac cagcacgctt acattcagca 300

gctgag 306

<210> 303

<211> 271

<212> DNA

<213> Zea mays

<400> 303

cccacgcgtc cgcccacgcg tccgcccacg cgtccgcgag gtcttgcggtg acaggcctgc 60

tgggtcatgaa tgggagcttg aacctggagt cacatgtggg gactatttgt ttgggatggt 120

gcagggaaca cgttctgctc tttatgcaaa tgaccgtgaa tctatctctg ttactgtgca 180

agaggtaact cctagagctg ttggagcact ggttgcactt tatgaacgtg ctgtggggct 240

ttatgcttct ttggtaaata tcaatgccta t 271

<210> 304

<211> 228

<212> DNA

<213> Zea mays
 <400> 304
 cggacgcgtg ggggtgtaca caacttcttt gttacgttta ttgaggtctt gcgtgacagg 60
 cctgctgggc atgattggga gcttgaacct ggagtcacgt gtggtgacta tttgtttggg 120
 atgttgcagg gaaccgcttc tgctctttat gcaaatgacc gggagtctat ctctgttact 180
 gtgcaagagg taactcctag agctgttggg gcaactgattg cactttat 228

<210> 305
 <211> 275
 <212> DNA
 <213> Zea mays
 <400> 305
 tgggtgtacac aacttctttg ttacttttat cgaggtcttg cgtgacaggc ctgctgggtca 60
 tgattgggag cttgaacctg gagtcacatg tggtgactat ttgtttggga tgttgcaggg 120
 aacacgttct gctctttatg caaatgaccg tgaatctatc tctgttactg tgcaagaggt 180
 aactcctaga gctgttggag cactggttgc actttatgaa cgtgctgtgg ggctttatgc 240
 ttcttggtaa atatcaatgc tatcatcaac tgggtg 275

<210> 306
 <211> 203
 <212> DNA
 <213> Zea mays
 <400> 306
 tgttgtactt ccttacaagg atagtttggt gcttttgagt agatatttgc aacaacttgt 60
 catggaatct cttgggaaag aatttgatct ggatggcaac cgggtaaatc aagggtatc 120
 tgtatatgga aacaaaggaa gcaactgacca gcacgcttac attcagcagc tgagagaagg 180
 tgacacaact tctttgttac ttt 203

<210> 307
 <211> 285
 <212> DNA
 <213> Zea mays

<220>
 <221> unsure

<222> (1)..(285)
 <223> unsure at all n locations
 <400> 307
 gttgtcaggg tattgatatc aaggaaatgc tagctgggtgc agctttaatg gatgaagaaa 60
 cccggaacac tgtgggttaaa gaaaatccag cagcattgct tgcattatgt tggatttggg 120
 catcagaagg gataggcaat aaggatatgg ntgtacttcc ttacaaggat agttttgttgc 180
 ttttgagtag atatttgcaa caacttgta tggaatctct tgggaagaat tgatctggat 240
 gcaaccggta aatcaaggct atctgatatg aaacaaagaa gactg 285

 <210> 308
 <211> 267
 <212> DNA
 <213> Zea mays
 <400> 308
 tatcttgctg tcaagccatc caccocgtat gatactaccg tgctgccgaa gtgtaattac 60
 tcagttgttt ttgacatgcc aattgctgag ttctgacttg gcaagggtga gcataagtct 120
 ttcttcattt tgggagttat cacagagcca gtttggcagt gctgtagttt tggttttacc 180
 tactctttgt agaagaaaag tgaagagtgg atattatgga acaaaatata tacctacggc 240
 agcacgcagc atgatgaaac atattta 267

 <210> 309
 <211> 240
 <212> DNA
 <213> Zea mays
 <400> 309
 gtctcccccg accggcgatc gctatcgact tgtagcggaa gccatggcgt cggcagcgct 60
 aatctgcggc acggagcagt ggaaggccct ccaggcgcac gtcggcgca ttcagaagac 120
 gcacctgcgc gacctgatgg ccgacgccga ccgatgcaag gcaatgacgg ctgagtatga 180
 agggatcttt ctggattact cgagacagca ggcgactggg gaaacatgga gaagccctta 240

 <210> 310
 <211> 292
 <212> DNA
 <213> Zea mays

<400> 310

caaaatccgg aggaactccc aggaggcgaa aagcagatcc gtctcccccg agccccgacc 60

ggcgatcgct atcgacttgt agcggaagcc atggcgctcg cagcgctaata ctgcggcacg 120

gagcagtgga aggccctcca ggcgcacgtc ggcgcgattc agaagacgca cctgcgcgac 180

ctgatggccg acgccgaccg atgcaaggca atgacggctg agtatgaagg gatctttctg 240

gattactcga gacagcaggc gactggtgaa acatggagaa gctcttaaat tg 292

<210> 311

<211> 320

<212> DNA

<213> Zea mays

<400> 311

ggcaagcaaa cgagcggcgg gacggctagc ccgcaatata aaatccggag gaactcccag 60

gaggcgaaaa gcagatccgt ctcccccgag ccccgaccgg cgatcgctat cgacttgtag 120

cggaagccat ggcgtcggca gcgctaata gcggcacgga gcagtggaag gccctccagg 180

cgcacgtcgg cgcgattcag aagacgcacc tgcgcgacct gatggccgac gccgaccgat 240

gcaaggcaat gacggctgag tatgaaggga tctttctgga ttactcgaga cagcaggcga 300

ctggtgaaac catggagaag 320

<210> 312

<211> 278

<212> DNA

<213> Zea mays

<400> 312

caccgtcttc cggccgtcca ccgtttccag cacacagggg aaaggcaagc aaacgagcgt 60

ggggacggct agcccgcaat acaaaatccg gaggaactct caggaggcga aaagcagatc 120

tgtctcccc gaccggcgat cgctatcgac ttgtagcgga agccatggcg tcggcagcgc 180

taatctgcgg cacggagcag tggaaggcac tccaggcgca cgtcggcgcg attcagaaga 240

cgcaactgcg cgacctgatg gccgacgccg accgatgc 278

<210> 313

<211> 105

<212> DNA
 <213> Zea mays
 <400> 313
 caaaatccgg aggaactccc aggaggcgaa aagcagatcc gtctcccccg agccccgacc 60
 ggcgatcgct atcgacttgt agcggaagcc atggcgtcgg cagcg 105

<210> 314
 <211> 267
 <212> DNA
 <213> Zea mays
 <400> 314
 acccgatcaa gctgtgggag cgctacgtcg agtggctcta ccagcacaag gagctcggca 60
 tcttcgtcga cgtcagccgg atggggttca cggaggagtt cctgcggcag atggagccgc 120
 ggatgcagca ggccttcgtc gacatgcggg agctcgagaa gggcgccatc gccaaacccg 180
 acgaggggtcg catggtgggc cactactggc tccgcgaccc ggccctcgct cccaactcct 240
 tcctccggaa caagatcgag accgcac 267

<210> 315
 <211> 325
 <212> DNA
 <213> Zea mays
 <400> 315
 tgccatattc tcaggcactt gagaagttgg caccacatat acagcagctt agcatggaga 60
 gtaacgggaa ggggtgtttcc attgatggcg cccaactttc ctttgagaca ggtgaaattg 120
 attttggtga acctcgaact aatggccagc acagcttcta tcaattaatc catcagggaa 180
 gggttatccc ttgcgacttt attggtgttg ttaaaagtca gcagcctgtt tacttgaaag 240
 gggaaactgt gagtaatcat gatgagctta tgtccaattt ctttgcccaa cctgatgctc 300
 ttgcttatgg aaagactcct gaaca 325

<210> 316
 <211> 316
 <212> DNA
 <213> Zea mays
 <400> 316

tccagctagg gcaatattgc catattctca ggcacttgag aagttggcac cacatataca 60
gcagcttagc atggagagta acggaaggg tgtttccatt gatggcgccc aactttcctt 120
tgagacaagt gaaattgatt ttggtgaacc tggaactaat ggccagcaca gcttctatca 180
attaatccat caggaaggg ttatcccttg cgactttatt ggtggtgta aaagtcagca 240
gcctgtttac ttgaaagggg aaactgtgag taatcatgat gagcttatgt ccaatttctt 300
tgcccaacct gatgct 316

<210> 317
<211> 300
<212> DNA
<213> Zea mays

<220>
<221> unsure
<222> (1)..(300)
<223> unsure at all n locations

<400> 317

atcaaagaca ttcacaacag ctgnaaaca tggttaaagtc tgaactcctt aaggagtggg 60
tcgtttcttc tcttgggcca caggctgttg ccaaacatat gattgctgtc agcactaatc 120
ttaagcttgt gaaggagttt ggaattgacc caaacaatgc ttttgccctt tgggactggg 180
ttggcgggccg ttatagtgtt tgcagtgtg ttggcggttct gccattatct cttcagtatg 240
gctttccaat tgtccagaaa tttttggagg gagcttccag tatcgacaac cacttctact 300

<210> 318
<211> 334
<212> DNA
<213> Zea mays

<400> 318

ctcatgatga gcttatgtcc aatttctttg cccaacctga tgctcttgct tatggaaaga 60
ctcctgaaca gttgcacagt gagaaagttc cagataatct tatccctcat aagactttta 120
agggcaaccg gccatcacta agtttgcttc tgccacact atctgcatat gaggttggac 180
agcttttatc catctatgag caccggattg cagttcaggg cttcatatgg ggaattaact 240
catttgacca ctagggagtg gagctagga agtcactcgc ttctcaagtg aggaaacagc 300

tgcatggaac ccggatggaa ggacacctgt tgag

334

<210> 319

<211> 279

<212> DNA

<213> Zea mays

<400> 319

ggtgaacctg gaactaatgg ccagcacagc ttctatcaat taatccatca gggaagggtt 60

atcccttgcg actttattgg tgttgttaaa agtcagcagc ctgtttactt gaaaggggaa 120

actgtgagta atcatgatga gcttatgtcc aatttctttg cccaacctga tgctcttgct 180

tatggaaaga ctctgaaca gttgcacagt gagaaagttc cagaaaatct tatccctcat 240

aagactttta agggcaaccg gccatcacta agtttgctt 279

<210> 320

<211> 274

<212> DNA

<213> Zea mays

<400> 320

tgcaaagtgt gatccagttg acgttgacag aagcattaaa gatttggatc cagaaaccac 60

tctggtggtg gttgtatcaa agacattcac aacagcggaa acaatgttaa atgctcgaac 120

tcttaaggag tggatcggtt cttctcttgg gccacaggct gttgccaaac atatgattgc 180

tgtcagcact aatcttaagc ttgtgaagga gtttggaatt gacccaaaca atgcttttgc 240

cttttgggac tgggttggcg gccgttatag tggt 274

<210> 321

<211> 283

<212> DNA

<213> Zea mays

<220>

<221> unsure

<222> (1)..(283)

<223> unsure at all n locations

<400> 321

gccacaggct gttgccaaac atatgattgc tgtcagcact aatcttaagc ttgtgaagga 60

gtttggaatt ganccaaaca atgcttntgc ctnttgggac tgggttggcg gccgttatag 120

tgtttgcagt gctgttggcg ttctgccatt atctcttcag tatggcttgc caattgtcca 180
gaaatttttg gagggagctt ccagcattga caaccactnc tactcatctt catgtgagaa 240
naatataccn gtacntcttg gtgctgagtg tgtggaatgt ttc 283

<210> 322
<211> 269
<212> DNA
<213> Zea mays

<400> 322

gccacaggct gttgccaaac atatgattgc tgtcagcact aatcttaagc ttgtgaagga 60
gttttgaatt gacccaaaca atgcttttgc cttttgggac tgggttggcg gccgttatag 120
tgtttgcagt gctgttggcg ttctgccatt atctcttcag tatggcttgc caattgtcca 180
gaaatttttg gagggagctt ccagcattga caaccacttc tactcatctt catttgagaa 240
aaatataccg tacttcttgg tttgctgag 269

<210> 323
<211> 299
<212> DNA
<213> Zea mays

<400> 323

agaagtggat catgggttgg agcaactgga aaaccgttga caaatgttgt gtcagttgga 60
ataggtggta gctttcttgg ccctctatct gtgcatactg cactccagac cgatccagaa 120
gcagcagaat gtgcaaaagg ccggcaactg agattccttg caaatgttga tccagttgac 180
gttgcacgaa gcattaaaga tttggatcca gaaaccactc tgggtggtgg tgtatcaaag 240
acattcacia cagctgaaac aatgttaaata gctcgaactc ttaaggagtg gatcgtttc 299

<210> 324
<211> 276
<212> DNA
<213> Zea mays

<400> 324

ttggaattga cccaaacaat gcttttgcct tttgggactg ggttggcggc cgttatagt 60
tttgcagtgc tgttggcggt ctgccattat ctcttcagta tggctttcca attgtccaga 120

aattttttgga gggagcttcc agcattgaca accacttcta ctcatcttca tttgagaaaa 180
atatacctgt acttcttgggt ttgctgagtg tgtggaatgt tcatttcttg gttatccagc 240
tagggcaata tgccatatct caggcacttg agaagt 276

<210> 325
<211> 255
<212> DNA
<213> Zea mays

<400> 325

ctccaagaga tgcagtcata aacagtgatg gggtgactgt ggtccctgag gtttggagtg 60
ttaaagataa aatcaagcag ttttcagaga cttttagaag tggatcatgg gttggagcaa 120
ctggaaaacc gttgacaaat gttgtgtcgg ttggaatagg tggtagcttt cttggccctc 180
tatttgtgca tactgcactc cagaccgatc cagaagcagc agaatgtgca aaaggccggc 240
aactgagatt ccttg 255

<210> 326
<211> 233
<212> DNA
<213> Zea mays

<400> 326

gcacgaggtt ctgccattat ctcttcagta tggctttcca attgtccaga aatttttggga 60
gggagcttcc agcattgaca accacttcta ctcatcttca tttgagagaa atatacctgt 120
acttcttgggt ttgctgagtg tgtggaatgt ttcatttctt gggtatccag ctagggcaat 180
attgtcatat tctcaggcac ttgagaagtt ggcaccacat atacagcagc tta 233

<210> 327
<211> 151
<212> DNA
<213> Zea mays

<400> 327

aatttctttg cccaacctga tgctcttgct tatggaaaga ctctgaaca gttgcacagt 60
gagaaagttc cagaaaatct tatccctcat aagactttta agggcaaccg gccatcacta 120
agtttgcttc tgctacact atccgcatat g 151

<210> 328
 <211> 115
 <212> DNA
 <213> Zea mays

<400> 328

gtggtagctt tcttggccct ctatttgtgc atactgcact ccagaccgat gcagaagcag 60

cagaatgtgc aaaaggccgg caactgagat tccttgcaaa tgttgatcca gttga 115

<210> 329
 <211> 113
 <212> DNA
 <213> Zea mays

<220>
 <221> unsure
 <222> (1)..(113)
 <223> unsure at all n locations

<400> 329

ggagtttggga attgacccaa acaatgcttt tgccttttgg gactggggtg gcggccgtta 60

tagtgtttgc agtgctgttg gcgntctgcc attatctctt cagtatggct ttc 113

<210> 330
 <211> 122
 <212> DNA
 <213> Zea mays

<400> 330

tatcttatcc ctcataagac ttttaagggc aaccggccat cactaagttt gcttctgcct 60

acactatctg catacgaggt tacgacagct tttatccatc tatgagcacc ggattgcagt 120

tc 122

<210> 331
 <211> 443
 <212> DNA
 <213> Zea mays

<220>
 <221> unsure
 <222> (1)..(443)
 <223> unsure at all n locations

<400> 331

agtcctatctc tgttactgtg caagaggtaa ctccctanagc tgttggagna ctgattgcac 60

tttatgaacg tgctgtgggg atttatgctt ctttggtaaa tatcaatgcc tatcatcagc 120

ctgggtgttga ggctgggaaa aaggcancan gagaagtatt ggcccttcag aaaagggttc 180

tgactgtatt aaaggaggcc atctgcnaga accctactga gccattgact ctagatgaaa 240

ttgcagatcg ctgacattgc cctgaagata ttganatgat ctacanaata atccancaca 300

tggcttctaa cgacagatca cttatagcag aaggcatctg cngctttctt ngcagtgtta 360

aggtgtacct nggtgaaatg caattttgga ccnaantatg caggccggga tagattctgn 420

gtcnggancn aagtaacatt ntt 443

<210> 332

<211> 420

<212> DNA

<213> Zea mays

<400> 332

ctcttgggaa agaatttgat ctggatggca accgggtaaa tcaagggcta tgtgtagatg 60

gaaacaaagg aagcactgac cagcacgctt acattcagca gctgagagaa ggtgtacaca 120

acttctttgt tacttttata gaggtcttgc gtgacaggcc tgctggcat gattgggagc 180

ttgaacctgg agtcacatgt ggtgactatt tgtttgggat gttgcaggga acacgttctg 240

ctctttatgc aaatgaccgt gaatctatct ctgttactgt gcaagaggta actcctagag 300

ctgttggagc actggttgca ctttatgaac gtgctgtggg gctttatgct tctttggtaa 360

atatcaatgc ctatcatcaa cctggtgttg aggctgggaa aaaggcagca ggagaagtgt 420

<210> 333

<211> 355

<212> DNA

<213> Zea mays

<400> 333

agttcttgcg gtcaagcaat caaccccgta tgatacaacc gtgctgccga aggtgtaatt 60

accagttgt ttttgacatg ccaattgctg agttctgact tggcaagggt gagcataagt 120

ctttcttcat ttgggagtta tcacagagcc agtttggcag tgctgtagtt ttggttttac 180

ctactcttttg tagaagaaaa gtgaagagtg gatattatgg aacaaaatat atacctacgg 240
cagcacgcag catgatgaaa catatttaaa aaatttgggt gctctaccac atgcccgtgg 300
aataaaacgg atgtaaactc agtgcaaaaa aaaaaaaaaa aaaaaaaaac aaaaa 355

<210> 334
<211> 376
<212> DNA
<213> Zea mays

<220>
<221> unsure
<222> (1)..(376)
<223> unsure at all n locations

<400> 334

aacgagcggc gggacggcta gcccgcaata caaaatccgg aggaactccc aggaggcgaa 60
aagcagatcc gtctcccccg agccccgacc ggcgatcgct atcgacttgt agcggaagcc 120
atggcgtcgg cagcgctaata ctgcggcacg gagcagtgga aggccctcca ggcgcacgtc 180
ggcgcgattc agaagacgca cctgcgcgac ctgatggccg acgccgaccg atgcaaggca 240
atgacggctg agtatgaagg gatctttctg gattactcga gacagcaggc gactggtgaa 300
accctggaga agctccttaa atgggctgac gctgcgaagc tcaaggagaa ngatgagaag 360
atgttttaaag gtgaaa 376

<210> 335
<211> 451
<212> DNA
<213> Zea mays

<400> 335

cogtatatag tgtttgcagt gctgttggcg ttctgccatt atctcttcag tatggctttc 60
caattgtcca gaaatttttg gagggagctt ccagcattga caaccacttc tactcatctt 120
catttgagaa aaatatacct gtacttcttg gtttgctgag tgtgtggaat gtttcatttc 180
ttggttatcc agctagggca atattgccat attctcaggc acttgagaag ttggcaccac 240
atatacagca gcttagcatg gagagtaacg ggaaggggtg ttccattgat ggcgcccaac 300
tttcctttga gacaggtgaa attgattttg gtgaacctgg aactaatggc cagcacagct 360

tctatcaatt aatccatcaa ggaagggtta tcccttgcca ctttattggt gttgttaaaa 420
 gtcagcagcc tgtttacttg aaaaggaaa c 451

<210> 336
 <211> 453
 <212> DNA
 <213> Zea mays

<400> 336

gtcatgcact ggagacgttg gcactacata tacagcagct tatcatggat agtaacgggg 60
 ggggtgtttc cattgatggc gcccaacttt cctttgagac aggtgaaatt gatttttggtg 120
 aacctggaac taatggccag cacagcttct atcaattaat ccatcaggga agggttatcc 180
 cttgcgactt tattggtggt gttaaaagtc agcagcctgt ttacttgaaa ggggaaactg 240
 tgagtaatca tgatgagctt atgtccaatt tctttgcccc acctgatgca cttgcttatg 300
 gaaagactcc tgaacagttg cacagtgaga aagttccaga aaatcttatt cctcataaga 360
 cttttaaggg caaccggcca tctaagtt tgcttctgcc tacactatcc gcatatgagg 420
 ttggacagct tttatccatc tatgagcacc gga 453

<210> 337
 <211> 419
 <212> DNA
 <213> Zea mays

<400> 337

aaaatcaagc agttttcaga gactttttaga agtggatcat gggttggagc aactggaaaa 60
 ccgttgacaa atgttggtgc agttggaata ggtggttagct ttcttgccc tctatttggtg 120
 catactgcac tccagaccga tccagaagca gcagaatgtg caaaaggccg gcaactgaga 180
 ttccttgcaa atgttgatcc agttgacgtt gcacgaagca ttaaagattt ggatccagaa 240
 accactctgg tgggtggttg atcaaagaca ttcacaacag ctgaaacaat gttaaagtgt 300
 cgaactctta aggagtggat cgtttcttct cttgggccac aggctgttgc caaacatatg 360
 attgctgtca gcactaatct taagcttggtg aaggagtttg gaattgaccc aaacaatgc 419

<210> 338
 <211> 460
 <212> DNA

<213> Zea mays
 <400> 338

tcgatatgct gcaacggcag gaccaggact gggactcgcg ggccgacaca cgcctctaca 60
 tttcttggtt atacagctag ggcaatattg ccatattctc aggcaattga gaagttggca 120
 ccacatatac agcagcttag catggagagt aacgggaagg gtgtttccat tgatggcgcc 180
 caactttcct ttgagacagg tgaaattgat tttggtgaac ctggaactaa tggccagcac 240
 agcttctatc aattaatcca tcagggaagg gttatccctt gcgactttat tgggtgttgtt 300
 aaaagtcagc agcctgttta cttgaaaggg gaaactgtga gtaatcatga tgagcttatg 360
 tccaatttct ttgcccaacc tgatgctctt gcttatggaa agactcctga acagttgcac 420
 agtgagaaaag ttccagaaaa tcttatccct cataagactt 460

<210> 339
 <211> 323
 <212> DNA
 <213> Zea mays

<400> 339

gcgaagctca aggagaagat tgagaagatg tttaaagggtg aaaagataaa tagcacagag 60
 aacaggtcag tgcttcatgt agctctgagg gctccaagag atgcagtcac aaacagtgat 120
 ggggtgaatg tggtccttga gggttcggagt gttaaagata aaatcaagca gttttcagag 180
 acttttagaa gtggatcatg gggttgagca actggaaaac cgttgacaaa tgttgtgtcg 240
 gttggaatag gtggtagctt tcttggccct ctatttgtgc atactgcact ccagaccgat 300
 ccagaagcag cagaatgtgc aaa 323

<210> 340
 <211> 422
 <212> DNA
 <213> Zea mays

<220>
 <221> unsure
 <222> (1)..(422)
 <223> unsure at all n locations
 <400> 340

cctaaactga gtctcattac aaatgtngat cnanttgacg ttgcacnaan cattaaagat 60

ttggntccag aaaccacccn ggtggtggtt gtancaaaga cattcacaac agcggaaaca 120
 atgttaaagt ctcgaactct taaggagtgg atcgtttctt ctcttgggcc acaggctgtt 180
 gccaaacata tgattgctgt cagcactaat cttaagcttg tgaaggagtt tggaattgac 240
 ccaaacaatg cttttgcctt ttgggactgg gttggcggcc gttatagtgt ttgcagtgtc 300
 gttggcggtc tgccattact cttcagtatg gctttccaat tgtccagaaa tttttggagg 360
 gaacttccag ncattgacaa acaacttcna ntcnnctnc attttgagaa aaatatacct 420
 gt 422

<210> 341
 <211> 254
 <212> DNA
 <213> Zea mays

<400> 341
 gccgcgcacc cctggcacga cctcgagatc ggtcctgaag ctccggccgt cttcaacgtc 60
 gtcgtggaga tcaccaaggg gagcaaggtg aagtacgagc tggacaagaa gacggggctc 120
 atcaaggtgg accggatcct ctactcgtcc gtcgtctacc ctcaacta cggcttcgtg 180
 ccccggaacgc tctgcgagga caacgacccc atggacgtcc tcgtgctcat gcaggaaccc 240
 gtccttcccc gcgc 254

<210> 342
 <211> 205
 <212> DNA
 <213> Zea mays

<400> 342
 tttgtttcct gctctggcca aattccagac aagaagaacg agaacaagga ggtggccgtc 60
 aacgacttcc tgcccgccgc cgctgcccgc gaagcatcca gtactccatg taaagtcgcc 120
 ctgctcattt atctcgtgga tgacttgaaa aaaaacgagg tttggattct gggactctgc 180
 attcgtacgt gttgacatgg atctt 205

<210> 343
 <211> 241
 <212> DNA
 <213> Zea mays

<400> 343

togacatgtg tgaatatgga gcggtgtctga cgatccttcc ggtgcgcgtc cgtccgtccg 60

ttacgtacgt ggtgccgacg agcaggctcgt ggagatcacc aaggggagca aggtgaagta 120

cgagctggac aagaagacgg ggctcatcaa ggtggaccgg atcctctact cgtccgtcgt 180

ctaccctcac aactacggct tcgtgccccg gacgctctgc gaggacaacg accccatgga 240

c 241

<210> 344

<211> 324

<212> DNA

<213> Zea mays

<400> 344

ggttcctgcc ttgaacgaaa ggatactgtc atccatgtcc aggaggtctg ttgctgcaca 60

cccttggcat gatctggaga taggtcctgg tgctccaacc atattcaact gcgtaaggcc 120

accctgtcat gcttgactgg tcctcttgtg atatgttcat gttaatagca tgatgtcttt 180

tgttctattg gaaaataaaa agtctccctg gactctaaaa tcaatgcctg tgaacacatg 240

aactgtttgt gtcacccatg ttctctgtgt ccttggcact ttctgatgca tgctcaaatg 300

cttaagaaag actcatagaa gcga 324

<210> 345

<211> 123

<212> DNA

<213> Zea mays

<400> 345

ctccgcgcca gggccatcgg cctcatgcct atgatagatc agggagagaa ggacgacaag 60

atcatcgccg tctgcgccga cgaccccgag taccgccact acaacgacat cagcgagctc 120

tcc 123

<210> 346

<211> 286

<212> DNA

<213> Zea mays

<400> 346

ggccgctccg ccaccccgca ctgcctgtc gcctcttctc gctttcgcca ccggggcagc 60
gctccggtga gtggcgaagg gcccctcccg gctcccgctt ccctctgcca tggctggacc 120
tgctgttctc aatgagcgta tcctttcttc catgtcccag aaacatgttg ctgctcaacc 180
atagcatgat ttggagatag gaccaggggc tcctgaattc ttcaattgtg tggttgagat 240
tcctagaggc agcaagggtta agtacgagtt ggacaaggca tctggt 286

<210> 347
<211> 289
<212> DNA
<213> Zea mays
<220>
<221> unsure
<222> (1)..(289)
<223> unsure at all n locations
<400> 347

cttgccaggga gagaaggacg acaagatcat cgccgtctgc gccgacgacc ccgagtaccg 60
ccactacaac gacatcagcg agctctcccc tcaccgcctc caggagatcc gccgcttctt 120
tgaagactgt acgcgcgctt gctctctctc tctctctctg ggggcgcgct ttctggngnc 180
tctctctctc tctctatctc tcggcgctcg ctgtgtgcgc gcgcggtgct ctgtgagcgc 240
gcgcgccccct ctgtatgagt gcgtgtgtgg gtgttggtgc tcgcgctct 289

<210> 348
<211> 96
<212> DNA
<213> Zea mays
<400> 348

ggaggtccgt agctgctcat ccgtggcatg atcttgagat cggtcctgat gctcctgctg 60
tttccgaatg ttgttggttca gatcacaaag ggaagc 96

<210> 349
<211> 199
<212> DNA
<213> Zea mays
<400> 349

tagcgagtaa tcggatcgtc aggagtcctg agtgtcatcc gggatgatct tgagatcggt 60
 ctgatgctct gctgttatca atgttggtgt tgagatcaca aagggaagca acataaaata 120
 tgagctcgac aagaaaactg gactgattaa ggttgatcga gtcctgcact catcagttgt 180
 ataccacac aattatggt 199

<210> 350
 <211> 284
 <212> DNA
 <213> Zea mays

<400> 350

agcgacacgg ttggagaccc attcaaagaa gtacattgag actggtgccc ttggtggcaa 60
 aggcagtgag tcccataagg ctgcggttac aggcgacacg gttggagacc cattcaaaga 120
 cactgcagga ccatcgctgc acgttcttat caagatgctc gccacgatca cactggtcat 180
 ggctcccata ttcttgatgat taaccaacca gatttatcaa gcttgccatt aaccctgcgg 240
 agatgtatct atgcgacttg tagatgaggt gtttacctgc atgt 284

<210> 351
 <211> 132
 <212> DNA
 <213> Zea mays

<400> 351

gcactgagaa ctcgatcgct ggctagaaca caggctctctc attcacttcc atgcgctccg 60
 tggccatcgc cgtccccgac cgcagcgcag gactgaggat aatgaagaa gttaagggtg 120
 ctgcttctgc tg 132

<210> 352
 <211> 333
 <212> DNA
 <213> Zea mays

<400> 352

gccaccgatc gtcctctcc actttccaca ttccagttcc actccgctc cgctgccggt 60
 cgccgactcc gaaactccga cagtccgacc acaaggctctt gtgcgggatc cacagaagga 120
 tgagtgaaga ggataagact gctgcttctg ctgagcagcc gaagagggcc cctaagctca 180

atgaaaggat cctctcttct ctgtccagga ggtccgtagc tgctcatcca tggcatgac 240
 ttgagatcgg tcttgatgct cctgctgttt tcaatgttgt tgttgagatc acaaagggaa 300
 gcaaagttaa atatgagctt gacaagaaaa ctg 333

<210> 353
 <211> 340
 <212> DNA
 <213> Zea mays

<400> 353

ctccgctgcc ggtcgccgac tccgaaactc cgacagtccg accacaagga tccacagaag 60
 gatgagttaa gaggataagg ctgctgcttc tgctgagcag ccgaagaggg cccctaagct 120
 caatgaaagg atcctctctt ctctgtccag gaggtccgta gctgctcatc cgtggcatga 180
 tcttgagatc ggtcctgatg ctctgctgt tttcaatgtt gttgttgaga tcacaaaggg 240
 aagcaaagtt aaatatgagc tcgacaagaa aactggactg attaagggtg atcgagtcct 300
 gtactcatca gttgtatacc ctcacaatta tggttcgtcc 340

<210> 354
 <211> 322
 <212> DNA
 <213> Zea mays

<400> 354

gccaccgatc gtcctctctc actttccaca ttccagttcc actccgcctc cgtgcccgtt 60
 cgccgactcc gaaactccga cagtccgacc acaagaagga tgagtgaaga ggataagact 120
 gctgcttctg ctgagcagcc gaagagggcc cctaagctca atgaaaggat cctctcttct 180
 ctgtccagga ggtccgtagc tgctcatcca tggcatgac ttgagatcgg tcttgatgct 240
 cctgctgttt tcaatgttgt tgttgagatc acaaagggaa gcaaagttaa atatgagctt 300
 gacaagaaaa ctggactgat ta 322

<210> 355
 <211> 357
 <212> DNA
 <213> Zea mays

<220>
 <221> unsure

<222> (1)..(357)
 <223> unsure at all n locations
 <400> 355
 cccancgat cgctcctctc cactttccac attccagttc caacacgcct ccgctgcagg 60
 tcgccgactc cgaaactccg acagtccgac cacaaggtct tgtgcgggat ccacagaagg 120
 atgagtgaag aggataagac tgctgcttct gctgagcagc cgaagagggc ccctaagctc 180
 aatgaaagga tcctctcttc tctgtccagg aggtccgtag ctgctcatcc atggcatgat 240
 cttgagatcg gtccatgatgc tcctgctggt ttcaatgttg ttgttgagat cacaaagga 300
 agcaaagtta aatatgagct tgacaagaaa actggactga ttaagggtga tcgagtc 357

<210> 356
 <211> 309
 <212> DNA
 <213> Zea mays

<400> 356
 accaggggtga aaaggatgac aagataatag cagtctgtgc tgatgatcct gaatatcgtc 60
 actacaacga catcagttag ctgtctcttc atcgccctgca agagatcaag cggttctttg 120
 aagattataa gaagaatgag aataaagagg ttgctgtcga tgcattcttg cctgcgacca 180
 cagctcgaga ggccattcag tactccatgg atctgtatgc gcagtatatt ttgcaaagct 240
 tgaggcagta gattggaagc aactatttat ctgggcgtct tggaatgagt gtgattttaa 300
 taagtcaaa 309

<210> 357
 <211> 312
 <212> DNA
 <213> Zea mays

<400> 357
 caaagttaaa tatgagcttg acaagaaaac tggactgatt aaggttgatc gagtcctgta 60
 ctcatcagtt gtataccctc acaattatgg ttctgttcca aggactcttt gtgaagacaa 120
 tgacccaatg gatgtgtag tcctgatgca ggagcctggt gttcctgggt cgttcctgcg 180
 agcaagagca atcggcctta tgctcatgat tgaccagggg gaaaaggatg acaagataat 240
 agcagtctgt gctgatgatc ctgaatatcg tcactacaac gacatcagtg agctgtctcc 300

tcatcgctg ca

312

<210> 358

<211> 298

<212> DNA

<213> Zea mays

<400> 358

tgcacagtcc gaccacaagg tcttgtgcgg gatccacaga aggatgagtg aagaggataa 60

gactgctgct tctgctgagc agccgaagag ggcccctaag ctcaatgaaa ggatcctctc 120

ttctctgtcc aggaggtccg tagctgctca tccatggcat gatcttgaga tcggtcctga 180

tgctcctgct gttttcaatg ttgttggtga gatcaciaag ggaagcaaag ttaaataatga 240

gcttgacaag aaaactggac tgattaaggt tgatcgagtc ctgtactcat cagttgta 298

<210> 359

<211> 297

<212> DNA

<213> Zea mays

<400> 359

gcctccgctg ccggtcgccg actccgaaac tccgacagtc cgaccacaag gatccacaga 60

aggatgagtg aagaggataa ggctgctgct tctgctgagc agccgaagag ggcccctaag 120

ctcaatgaaa ggatcctctc ttctctgtcc aggaggtccg tagctgctca tccgtggcat 180

gatcttgaga tcggtcctga tgctcctgct gttttcaatg ttgttggtga gatcaciaag 240

ggaagcaaag ttaaataatga gctcgacaag aaaactggac tgattaaggt tgatcga 297

<210> 360

<211> 287

<212> DNA

<213> Zea mays

<400> 360

ctccactttc cacattccag ttccactccg cctccgctgc cggtcgccga ctccgaaact 60

ccgacagtcc gaccacaagg tcttgtgcgg gatccacaga aggatgagtg aagaggataa 120

gactgctgct tctgctgagc agccgaagag ggcccctaag ctcaatgaaa ggatcctctc 180

ttctctgtcc aggaggtccg tagctgctca tccatggcat gatcttgaga tcggtcctga 240

tgctcctgct gttttcaatg ttgttggtga gatcacaaag ggaagca 287

<210> 361
 <211> 282
 <212> DNA
 <213> Zea mays

<400> 361

gagcactttc cacattccag ttccactccg cctccgctgc cggtcgccgt ctccgagact 60
 ccgacagtcc gaccgcaagg tcttggtgcg gatccacaga aggatgagtg aagaggataa 120
 gactgctgct tctgctgagc agccgaagag ggcccctaag ctcaatgaaa ggatcctctc 180
 ttctctgtcc aggaggtccg tagctgctca tccatggcat gatcttgaga tcggtcctga 240
 tgctcctgct gttttcaatg ttgttggtga gatcacaaag gg 282

<210> 362
 <211> 297
 <212> DNA
 <213> Zea mays

<400> 362

ttaagggtga tcgagtcctt tactcatcag ttgtataccc tcacaattat ggtttcattc 60
 caaggactac ttgtgaagac aatgacccaa tggatgtggt ggtcctgatg caggagcctg 120
 ttgttcctgg ttcgttcctg agagctagag caattggcct tatgcccatg attgaccagg 180
 gtgaaaagga tgacaagata atagcagtat gtgctgacga tcctgaatac cgtcactaca 240
 acgacatcag cgagctgtct cctcaccgcc tgcaagagat caagcgcttc tttgaag 297

<210> 363
 <211> 279
 <212> DNA
 <213> Zea mays

<400> 363

ctcgagccgc tccactttcc acattccagt tccactccgc ctccgctgcc ggtcgccgac 60
 tccgaaactc cgacagtccg accacaaggt cttgtgcggg atccacagaa ggatgagtga 120
 agaggataag actgctgctt ctgctgagca gccgaagagg gccctaagc tcaatgaaag 180
 gatcctctct tctctgtcca ggaggtccgt agctgctcat ccatggcatg atcttgagat 240

cggtcctgat gctcctgctg ttttcaatgt tgttggtga 279

<210> 364
 <211> 272
 <212> DNA
 <213> Zea mays

<400> 364

gcggttcttt gaagattata agaagaatga gaataaagag gttgctgtcg atgcattctt 60
 gcctgcgacc acagctcgag aggccattca gtactccatg gatctgtatg cgcagtatat 120
 tttgcaaagc ttgaggcagt agattggaag caactattta tctgggcgtc ttggaatgag 180
 tgtgatttta ataagtcaaa acacttgata ttgtgtgcaa atcttggggg tgagaacaat 240
 gtcactagct gtgatttact tctgtgactt gc 272

<210> 365
 <211> 292
 <212> DNA
 <213> Zea mays

<400> 365

ccacattcca gttccactcc gcctccgctg ccggctcgccg actccgaaac tccgacagtc 60
 cgaccacaag gatccacaga aggatgagtg aagaggataa ggctgctgct tctgctgagc 120
 agccgaagag ggcccctaag ctcaatgaaa ggatcctctc ttctctgtcc aggaggtccg 180
 tagctgctca tccgtggcat gatcttgaga tcggctcctga tgctcctgct gttttcaatg 240
 ttgttggtga gatcacaaag ggaggcaaag ttaaatatga gctcgacaag aa 292

<210> 366
 <211> 266
 <212> DNA
 <213> Zea mays

<400> 366

ccactttcca cattccagtt ccaactccgcc tccgctgccg gtcgccgact ccgaaactcc 60
 gacagtccga ccacaaggat ccacagaagg atgagtgaag aggataaggc tgctgcttct 120
 gctgagcagc cgaagagggc ccctaagctc aatgaaagga tcctctcttc tctgtccagg 180
 aggtccgtag ctgctcatcc gtggcatgat cttgagatcg gtccctgatgc tcctgctggt 240

ttcaatgttg ttgttgagat cacaaa

266

<210> 367
<211> 284
<212> DNA
<213> Zea mays

<400> 367

ccacattcca gttccactcc gcctccgctg cgggtcgccg actccgaaac tccgacagtc 60
cgaccacaag gatccacaga aggatgagtg aagaggataa ggctgctgct tctgctgagc 120
agccgaagag ggcccctaag ctcaatgaaa ggatcctctc ttctctgtcc aggagggtccg 180
tagctgctca tccgtggcat gatcttgaga tcggctcctga tgctcctgct gttttcaatg 240
ttgtttgttg gatcacaaag ggaagcaaag ttaaatatga gctc 284

<210> 368
<211> 341
<212> DNA
<213> Zea mays

<400> 368

ccaggttgct cctcatttcc actttccact gcgcctccgc tgcccatcgc cgtccccgac 60
cgcagcgcag gactgaggat gagtgaagag gataaggctg ctgcttctgc tgagcagcct 120
aagagggccc ctaagctcaa tgaaaggatc ctctcctctc tgtccaggag gtccgtagct 180
gctcatccat ggcatgatct cgagatcggc cctggtgctc ctgctgtatt caatgttggt 240
gttgagatca caaaggggaag caaagtcata tacgagcttg acaagaaaac tggactgatt 300
aaggttgatc gagtccttta ctcatcagtt gtatacctca c 341

<210> 369
<211> 269
<212> DNA
<213> Zea mays

<400> 369

attccactcc gcctccgtgc cgggtcgccg ctccgaaact ccgacagtcc gaccacaagg 60
tcttgctgcg gatccacaga aggatgagtg aagaggataa gactgctgct tctgctgagc 120
agccgaagag ggcccctaag ctcaatgaaa ggatcctctc ttctctgtcc aggagggtccg 180

tagctgctca tccatggcat gatcttgaga tcggtcctga tgctcctgct gttttcaatg 240
 ttgttggtga gacgccaaag ggaagcaaa 269

<210> 370
 <211> 255
 <212> DNA
 <213> Zea mays

<400> 370

cctcacaatt atggtttcgt tccaaggact ctttgtgaag acaatgaccc aatggatgtg 60
 ttagtcctga tgcaggagcc tgttgttcct ggttcggtcc tgcgagcaag agcaatcggc 120
 cttatgcccc tgattgacca gggtgaaaag gatgacaaga taatagcagt ctgtgctgat 180
 gatcctgaat atcgtcacta caacgacatc agtgagctgt ctctcatcg cctgcaagag 240
 atcaagcggg tcttt 255

<210> 371
 <211> 285
 <212> DNA
 <213> Zea mays

<400> 371

ctcctctcca ctttccacat tccagttcca ctccgcctcc gctgccgggc gccgactccg 60
 aaactccgac agtccgacca caagaaggat gagtgaagag gataagactg ctgcttctgc 120
 tgagcagccg aagagggccc ctaagctcaa tgaaaggatc ctctcttctc tgtccaggag 180
 gtccgtagct gctcatccat ggcattgatc tgagatcggt cctgatgctc ctgctgtttt 240
 caatgttggt gttgagatca caaaggaag cagagttaaa tatga 285

<210> 372
 <211> 267
 <212> DNA
 <213> Zea mays

<400> 372

agactccgaa actccgacag tccgaccaca agaaggatga gtgaagagga taagactgct 60
 gcttctgctg agcagccgaa gagggcccct aagctcaatg aaaggatcct ctcttctctg 120
 tccaggaggt ccgtagctgc tcatccatgg catgatcttg agatcgggtc tgatgctcct 180

gctgttttca atgttggtgt tgagatcaca aagggaagca atgttaaata tgatcttgac 240
aagaatactg gactgatgaa ggttgat 267

<210> 373
<211> 266
<212> DNA
<213> Zea mays

<400> 373

ggaggtccgt agctgctcat ccgtggcatg atcttgagat cggtcctgat gctcctgctg 60
ttttcaatgt tggttggtgag atcacaaagg gaagcaaagt taaatatgag ctcgacaaga 120
aaactggact gattaagggt gatcgagtcc tgtactcatc agttgtatac cctcacaatt 180
atgtgttcgt tccgaggact ctttgtgaag acaatgaccc aatggatgtg ttagtcctga 240
tgcaggagcc tggtgttcct ggttcg 266

<210> 374
<211> 253
<212> DNA
<213> Zea mays

<400> 374

gctgatgatc ctgaatatcg tcaactacaac gacatcagtg agctgtctcc tcatcgctg 60
caagagatca agcggttctt tgaagattat aagaagaatg agaataaaga gggtgctgtc 120
gatgcattct tgcctgcgac cacagctcga gagggcattc agtactccat ggatctgtat 180
gcgaggtata ttttgcaaag cttgaggcag tagattggaa gcaactatct atctgggcgt 240
cttggaatga gtg 253

<210> 375
<211> 303
<212> DNA
<213> Zea mays

<400> 375

gctgccgatc gccgtccccg accgcagtgc aggactgagg atgagtgaag aggataaggc 60
tgctgcttct gctgagcagc ctaagagggc ccctaagctc aatgaaagga tcctctcctc 120
tctgtccagg aggtccgtag ctgctcatcc atggcatgat ctcgagatcg gtcctgggtgc 180

tctgtctgta ttcaatgttg ttgttgagat cacaaaggga agcaaagtca aatacgagct 240
 tgacaagaaa actggactga ttaagggtga tcgagtcctt tactcatcag ttgtataccc 300
 tca 303

<210> 376
 <211> 285
 <212> DNA
 <213> Zea mays

<400> 376

cgaccaccga tcgctcctga gcactttcca cattccagtt ccacaccgcc tccgctgacg 60
 gtcgccgtct ccgagactcc gacagtccga ccgcaagaag gatgagtga gaggataaga 120
 ctgctgcttc tgctgagcag ccgaagaggg cccctaagct caatgaaagg atcctctctt 180
 ctctgtccag gaggtccgta gctgctcatc catggcatga tcttgagatc ggtcctgatg 240
 ctctgtctgt tttcaatgtt gttgttgaga tcacaaaggg aagca 285

<210> 377
 <211> 303
 <212> DNA
 <213> Zea mays

<220>
 <221> unsure
 <222> (1)..(303)
 <223> unsure at all n locations

<400> 377

aagnaccacc gatcgctcct ctccactttc cacattccag ttccactccg cctccgctgc 60
 cggtcgccga ctccgaaact ccgacagtcc gaccacaagg tcttgtgcgg gatccacaga 120
 aggatgagtg aagaggataa gactgctgct tctgctgagc agccgaagag ggcccctaag 180
 ctcaatgaaa ggatcctctc ttctctgtcc aggaggtccg tagctgctca tccatggcat 240
 gatcttgaga tcggtcctga tgcctctgct gttttcaatg ttgttggtga gatcacaag 300
 gga 303

<210> 378
 <211> 303
 <212> DNA

<213> Zea mays

<400> 378

acgcctccgc tgccgatcgc cgtccccgac cgcagtgcag gactgaggat gagtgaagag 60
gataaggctg ctgcttctgc tgagcagcct aagagggccc ctaagctcaa tgaaaggatc 120
ctctcctctc tgtccaggag gtccgtagct gctcatccat ggcatgatct cgagatcggt 180
cctgggtgctc ctgctgtatt caatgttggt gttgagatca caaaggaag caaagtcaaa 240
tacgagcttg acaagaaaac tggactgatt aaggttgatc gagtccttta ctcatcagtt 300
gta 303

<210> 379

<211> 267

<212> DNA

<213> Zea mays

<400> 379

attccaagga ctctttgtga agacaatgac ccaatggatg tgttggctct gatgcaggag 60
cctgttggtc ctggttcggt cctgagagct agagcaattg gccttatgcc catgattgac 120
caggggtgaaa aggatgacaa gataatagca gtatgtgctg acgatcctga ataccgtcac 180
tacaacgaca tcagcgagct gtctcctcac cgcttgcaag agatcaagcg cttctttgaa 240
gattacaaga aaaacgagaa caaagaa 267

<210> 380

<211> 263

<212> DNA

<213> Zea mays

<400> 380

cctgggtgctc ctgctgtatt caatgttggt gttgagatca caaaggaag caaagtcaaa 60
tacgagcttg acaagaaaac tggactgatt aaggttgatc gagtccttta ctcatcagtt 120
gtataccctc acaattatgg tttcattcca aggactcttt gtgaagacaa tgaccaatg 180
gatgtgttgg tcctgatgca ggagcctgtt gttcctgggt cgttcctgag agctagagca 240
attggcctta tgcccatgat tga 263

<210> 381

<211> 273
 <212> DNA
 <213> Zea mays
 <400> 381
 agcctccgct gccggtcgcc gactccgaaa ctccgacagt ccgaccacaa gcaggatgag 60
 tgaagaggat aagactgctg cttctgctga gcagccgaag agggccccta agctcaatga 120
 acggatcctc tcttctctgt ccaggaggtc cgtagctgct catccatggc atgatcttga 180
 gatcggtcct gatgctcctg ctgttttcaa tggtgtgtgt gagatcacia agggaagcaa 240
 agttaaatat gagcttgaca agaaaactgg act 273

<210> 382
 <211> 276
 <212> DNA
 <213> Zea mays
 <400> 382
 gtagctgctc atccatggca tgatcttgag atcggtcctg atgctcctgc tgttttcaat 60
 gttgtgtgtg agatcaacag cgaagcaaag ttaaatatga gcttgacaag aaaactggac 120
 tgattaaggt tgatcgagtc ctgtactcat cagttgtata cctcacaat tatggtttcg 180
 ttccaaggac tctttgtgaa gacaatgacc caatggatgt gttagtctcg atgcaggagc 240
 ctgttggtcc tggttcggtc ctggagcaag agcatc 276

<210> 383
 <211> 283
 <212> DNA
 <213> Zea mays
 <400> 383
 ccactttcca ctgcacctcc gctgcccata gccgtccccc accgcagcgc aggactgagg 60
 atgagtgaag aggataaggc tgctgcttct gctgagcagc ctaagagggc ccctaagctc 120
 aatgaaagga tcctctcctc tctgtccagg aggtccgtag ctgctcatcc atggcatgat 180
 ctcgagatcg gtccctgggtgc tcctgctgta ttcaatgttg ttgttgagat caciaaagga 240
 agcaaagtca aatacgagct tgacaagaaa actggactga tta 283

<210> 384

<211> 251
 <212> DNA
 <213> Zea mays

 <400> 384

 ctccgcctcc gctgccggtc gccgactccg aaactccgac agtccgacca caaggtcttg 60
 tgcgggatcc acagaaggat gagtgaagag gataagactg ctgcttctgc tgagcagccg 120
 aagagggccc ctaagctcaa tgaaaggatc ctctcttctc tgtccaggag gtccgtagct 180
 gctcatccat ggcatgatct tgagatcggt cctgatgctc ctgctgtttt caatgttgtt 240
 gttgagatca c 251

<210> 385
 <211> 263
 <212> DNA
 <213> Zea mays

 <400> 385

 ctttccactc cgctccgct gccgatcgcc gtccccgacc gcagtgcagg actgaggatg 60
 agtgaagagg ataaggctgc tgcttctgct gagcagccta agagggcccc taagctcaat 120
 gaaaggatcc tctcctctct gtccaggagg tccgtagctg ctcatccatg gcatgatctc 180
 gagatcggtc ctggtgctcc tgctgtattc aatgttggtt ttgagatcac aaaggggaagc 240
 aaagtcaaat acgagcttga caa 263

<210> 386
 <211> 296
 <212> DNA
 <213> Zea mays

 <220>
 <221> unsure
 <222> (1)..(296)
 <223> unsure at all n locations

 <400> 386

 gccgatcgcc gtccccgacc gcagtgcagg actgaggatg agtgaagagg ataaggctgc 60
 tgcttctgct gagcagccta agagggcccc taagctcaat gaaaggatcc tctcctctct 120
 gtccaggagg tccgtagctg ctcatccatg gcatgatctc gagatcggtc ctggtgctcc 180
 tgctgtattc aatgttggtt ttgagatcac aaaggggaagc aaagtcanat acgagcttga 240

caagaagact ggactgatta aggttgatcg agtcctttac tcatcagttg tatacc 296

<210> 387
 <211> 221
 <212> DNA
 <213> Zea mays

<400> 387

gtcattcagt actccatgga tctgtatgcg cagtatatatt tgcaaagctt gaggcagtag 60
 attggaagca actatattatc tgggcgtctt ggaatgagtg tgattctaata aagtcaaaac 120
 acttgatatt gtgtgcaaata cttgggggttg agaacaatgt cactagctgt gatttacttc 180
 tgtgacttgc attttttttc ttgttaaatt atgaataagc g 221

<210> 388
 <211> 313
 <212> DNA
 <213> Zea mays

<400> 388

ctcatttcca ctttccactg cgctccgct gcccatcgcc gtccccgacc gcagcgcagg 60
 tgaggatcca accccaacaa acttccaggc gacggactga ggatgagtga agaggataag 120
 gctgctgctt ctgctgagca gcctaagagg gccctaagc tcaatgaaag gatcctctcc 180
 tctctgtcca ggaggtccgt agctgctcat ccatggcatg atctcgagat cggtcctggt 240
 gctcctgctg tattcaatgt tgttggtgag atcacaaagg gaagcaaagt caaatacgag 300
 cttgacaaga aaa 313

<210> 389
 <211> 336
 <212> DNA
 <213> Zea mays

<400> 389

ctactttcca ctccgctcc gctgccgatc gccgtccccg accgcagtgc aggtgaggat 60
 ccaaccccaa caaacttcca ggcgacggac tgaggatgag tgaagaggat aaggctgctg 120
 cttctgctga gcagcctaag agggccccta agctcaatga aaggatcctc tcctctctgt 180
 ccaggaggtc cgtagctgct catccatggc atgatctcga gatcggtcct ggtgctcctg 240

ctgtattcaa tgttgttggt gagatcacia agggaagcaa agtcaaatac gagcttgaca 300
agataactgg actgattaag gttgatcgag tccttt 336

<210> 390
<211> 247
<212> DNA
<213> Zea mays

<400> 390

ggatgacaag ataatagcag tatgtgctga cgatcctgaa taccgtcact acaacgacat 60
cagcgagctg tctcctcacc gcctgcaaga gatcaagcgc ttctttgaag attacaagaa 120
aaacgagaac aaagaagtcg cagttgatgc attcttgccc gcgacaacag ctcaagaagc 180
cattcagtag tccatggacc tgtatgccca gtatatatttg caaagcttga ggcagtagat 240
tgcaagc 247

<210> 391
<211> 221
<212> DNA
<213> Zea mays

<400> 391

caatgttggt gttgagatca caaagggaag caaagtcaaa tacgagcttg acaagaaaac 60
tggactgatt aaggttgatc gagtccttta ctcatcagtt gtataccctc acaattatgg 120
tttcattcca aggactcttt gtgaagacaa tgaccaaatg gatgtgttg tcttgatgca 180
ggagcctggt gttcctgggt cgttcctgag agctagagca a 221

<210> 392
<211> 263
<212> DNA
<213> Zea mays

<400> 392

gtagtgcga tattcaggat catcagcaca gactgctaga gatcaagcgg ttctttgaag 60
attataagaa gaatgagaat aaagaggttg ctgtcgatgc attcttgctt gcgaccacag 120
ctcgagaggc cattcagtag tccatggatc tgtatgcgca gtatatatttg caaagcttga 180
ggcagtagat tggaagcaac tatttatctg ggcgtcttgg aatgagtgtg attttaataa 240

gtcaaaacac tgatattgtg tgc 263

<210> 393
<211> 258
<212> DNA
<213> Zea mays

<400> 393

agcggagaac gacccacacg tgacgacatg cttgctctgc tggactgtta ctctgagtaa 60
gactgctgct tctgctgagc agccgaagag ggcccctaag ctcaatgaaa ggatcctctc 120
ttctctgtcc aggaggtccg tagctgctca tccatggcat gatcttgaga tcggctctga 180
tgctcctgct gttttcaatg ttgttggtga gatcacaaag ggaagcaaag ttaaatatga 240
gcttgacaag aaaactgg 258

<210> 394
<211> 209
<212> DNA
<213> Zea mays

<400> 394

caagaaaact ggactgatta aggttgatcg agtcctgtac tcatcagttg tataccctca 60
caattatggc ttcgttccaa ggaatctttg tgaagacaat gacccaatgg atgtgttagt 120
cctgatgcag gagcctgttg ttcttggttc gttcctgcga gcaagagcaa tcggccttat 180
gccccatgatt gaccaggtg aaaaggatg 209

<210> 395
<211> 274
<212> DNA
<213> Zea mays

<400> 395

ctcatttcca ctttccactc cgctccgct gccgatcgcc gtccccgacc gcagtgcagg 60
actgaggatg agtgaagagg ataaggctgc tgcttctgct gaggagccta agagggcccc 120
taagctcaat gaaaggatcc tctcctctct gtccaggagg tccgtagctg ctcacccatg 180
gcatgatctc gagatcggtc ctggtgctcc tgctgtattc aatgttgtgg ttgagatcac 240
aaggggaagc caagtcaata cgagcttgac aaga 274

<210> 396
 <211> 240
 <212> DNA
 <213> Zea mays

 <400> 396

 tcctgatgca ggagcctggt gttcctggtt cgttcctgag agctagagca attggcctta 60
 tgcccatgat tgaccagggt gaaaaggatg acaagataat agcagtatgt gctgatgac 120
 ctgaataccg tcactacaac gacatcagcg agctgtctcc tcaccgcctg caagagatca 180
 agcgcttctt tgaagattac aagaaaaacg agaacaaaga agtcgcagtt gatgcattct 240

 <210> 397
 <211> 313
 <212> DNA
 <213> Zea mays

 <400> 397

 tccgcctccg ctgccgatcg ccgtccccga ccgcagtgca ggactgagga tgagtgaaga 60
 ggataaggct gctgcttctg ctgagcagcc taagagggca cctaagctca atgaaaggat 120
 cctctcctct ctgtccagga ggtccgtagc tgctcatcca tggcatgac tcgagatcgg 180
 tcctgggtgct cctgctgtat tcaatgttgt tgttgagatc acaaagggaa gcaaagtcaa 240
 atacgagctt gacaagataa ctggactgat taaggttgat cgagtccttt actcatcagt 300
 tgtataccct cac 313

 <210> 398
 <211> 187
 <212> DNA
 <213> Zea mays

 <400> 398

 caaggtcttg tgtgggatcc acagaaggat gagtgaagag gataagactg ctgcttctgc 60
 tgagcagccg aagagggccc ctaagctcaa tgaaaggatc ctctcttctc tgtccaggag 120
 gtccgtagct gctcatccat ggcgatgctt tgagatcggc cctgatgctc ctgctgtttt 180
 caatggt 187

<210> 399
 <211> 243
 <212> DNA
 <213> Zea mays

 <400> 399

 ggatccaacc ccaacaaact tccagggcagc ggactgagga tgagtgaaga ggataaggct 60
 gctgcttctg ctgagcagcc taagagggcc cctaagctca atgaaaggat cctctcctct 120
 ctgtccagga ggcccgtagc tgctcatcca tggcatgac tcgagatcgg tcctgggtgct 180
 cctgctgtat tcaatgttgt tgttgagatc acaaaaggaa agcaagtcaa atacgagctt 240
 gac 243

<210> 400
 <211> 261
 <212> DNA
 <213> Zea mays

 <400> 400

 gttctagatc gcgagcaaga gatcaagcgg ttctttgaag attataagaa gaatgagaat 60
 aaagagggtg ctgtcgatgc attcttgccg gcgaccacag ctcgagaggc cattcagtac 120
 tccatggatc tgtatgcgca gtatattttg caaagcttga ggcagtagat tggaagcaac 180
 tatttatctg ggcggcttgg aatgagtgtg atcctaataa gccaaaacac ttgatattgt 240
 gtgcaaattc tgggggttgag a 261

<210> 401
 <211> 285
 <212> DNA
 <213> Zea mays

 <400> 401

 gcgcctccgc tgcccatcgc cgtccccgac cgcagcgcag gtgaggatcc aacccaaca 60
 aacttccagg cgacggactg aggatgagtg aagaggataa ggctgctgct tctgctgagc 120
 agcctaagag ggcccctaag ctcaatgaaa ggatcctctc ctctctgtcc aggaggtccg 180
 tagctgctca tccatggcat gatctcgaga tcggctcctg tgctcctgct gtattcaatg 240
 ttgttggtga gatcaciaag ggaagccaag tcaaatacga gcttt 285

<210> 402
 <211> 222
 <212> DNA
 <213> Zea mays

<400> 402

cccacgagtc cgccacgcg tccgaaagag gttgctgacg atgcattctt gcctgcgacc 60
 acagctcgag aggccattca gtactccatg gatctgtatg cgcagtatat ttgcaaagc 120
 ttgaggcagt agattggaag caactattta tctgggcgtc ttggaatgag tgtgatttta 180
 ataagtcaaa acacttgata ttgtgagcaa ttcggggggt tg 222

<210> 403
 <211> 287
 <212> DNA
 <213> Zea mays

<400> 403

attggaagca actatattatc tgggcgtctt ggaatgagtg tgattttaat aagtcaaaac 60
 acttgatatt gtgtgcaaatt cttgggggttg agaacaatgt cactagctgt gatttacttc 120
 tgtgacttgc attttttttc ttgttaaatt atgaataagc gaagtcata cgtctactgt 180
 gtggcttctt gctgggttca tctctaccc atgttcctca agcttgggaa catggggcct 240
 ttccccattt ccgtgtcttc catgcgaagt aaaatttatt tgtatac 287

<210> 404
 <211> 176
 <212> DNA
 <213> Zea mays

<400> 404

gggaagcaaa gtcaaatacg agcttgacaa gaaaactgga ctgattaagg ttgatcgagt 60
 cctttactca tcagttgtat accctcacia ttatgggttc attccaagga ctctttgtga 120
 agacaatgac ccaatggatg tgttggtcct gatgcaggag cctgttggtc ctggtt 176

<210> 405
 <211> 151
 <212> DNA
 <213> Zea mays

<400> 405

tccagttcca ctccgcctcc gctgccggtc gccgactccg aaactccgac agtccgacca 60
 caaggtcttg tgcgggatcc acagaaggat gagtgaagag gataagactg ctgcttctgc 120
 tgagcagccg aagagggccc ctaagctcaa t 151

<210> 406
 <211> 263
 <212> DNA
 <213> Zea mays

<400> 406

gaacaaagaa gtcgcagttg atgcattctt gcccgcgaca acagctcaag aagccattca 60
 gtactccatg gacctgtatg cccagtatat tttgcaaagc ttgaggcagt agattgcaag 120
 caacaattta tctatcatgc gtcttggatc ggggcgtgat ttttaataagc cgaatcgctt 180
 gctatattgc gaaccttggg attgagaaca gcgtcactag ctgtgattcg ctcctttctc 240
 gttaaattat catatgaata ggc 263

<210> 407
 <211> 237
 <212> DNA
 <213> Zea mays

<400> 407

gcacgagaga agtcgcagtt gatgcattct tggccgagac aacagctcaa gaagccattc 60
 agtactccat ggacctgtat gcccagtata ttttgcaaag cttgaggcag tagattgcaa 120
 gcaacaattt atctatcatg cgtcttggat gggggcgtga ttttaataag ccaaatcgct 180
 tgctatattg ggaaccttgg aattgagaac agcgtcacta gctgtgattc gctcctt 237

<210> 408
 <211> 166
 <212> DNA
 <213> Zea mays

<400> 408

cggacgctgg gcgagtcctt tactcatcag ttgtataccc tcacaattat ggtttcattc 60
 caaggacact ttgtgaagac aatgacccaa tggatgtgtt ggtcctgatg caggagcctg 120
 ttgttcttgg ttcgttcttg agagctagag caattggcct tatgcc 166

<210> 409
 <211> 237
 <212> DNA
 <213> Zea mays

<400> 409

cagacgcgtg gccgctgcc atcgccgtcc ccgaccgcag cgcaggtgag gatccaaccc 60
 caacaaaatt ccaggcgacg gactgaggat gagtgaagag gataaggctg ctgcttctgc 120
 tgagcagcct aagagggccc ctaagctcaa tgaaaggatc ctctcctctc tgtccaggag 180
 gtccgtagct gctcatccat ggcatgatct cgagatcggc cctggtgctc ctgctgt 237

<210> 410
 <211> 137
 <212> DNA
 <213> Zea mays

<400> 410

gtagctgctc atccatggca tgatcttgag atcggtcctg atgctcctgc tgttttcaat 60
 gttgttggtg agatcacaaa gggaagcaaa gttaaataatg agcttgacaa gaaaactgga 120
 ctgattaagg ttaaccg 137

<210> 411
 <211> 191
 <212> DNA
 <213> Zea mays

<400> 411

acactgcacc tccgctgcc atcgccgtcc ccgaccgcag cgcaggacta gtatgaggat 60
 aaggctgctg cttctgctga gcagcctaag agggccccta agctcaatga aaggatcctc 120
 tcctctctgt ccaggaggtc cgtagctgct catccatggc atgatctcga gatcggtcct 180
 ggtgctcctg c 191

<210> 412
 <211> 136
 <212> DNA
 <213> Zea mays

<400> 412

gtgttggtcc tgatgcagga gcctgttggt cctggttcgt tcctgagagc tagagcaatt 60
ggccttatgc ccatgattga ccagggtgaa aaggatgaca agataatagc agtatgtgct 120
gacgatacctg aataacc 136

<210> 413
<211> 160
<212> DNA
<213> Zea mays

<400> 413

acggcccacc tggaagccgg agagaatcga gcagagccac cgatcgctcc tctccacttt 60
ccacattcca gttccactcc gcctccgctg ccggtcgccg actccgaaac tccgacagtc 120
cgaccacaag gatccacaga aggatgagtg aagaggataa 160

<210> 414
<211> 155
<212> DNA
<213> Zea mays

<400> 414

cgctcctctc cactctccac attccagttc cactccgcct ccgctgccgg tcgccgactc 60
cgataactccg acagtccgac cacaaggtct tgtgcgggat ccacagaagg atgagtgaag 120
aggataagac tgctgcttct gctgagcagc cgaag 155

<210> 415
<211> 135
<212> DNA
<213> Zea mays

<400> 415

ccaggttgct cctcatttcc actttccact gcgggtccgc tgcccatcgc cgtccccgac 60
cgcagcgcag gactgaggat gagtgaagag gataaggctg ctgcttctgc tgagcagcct 120
aagagggccc ctaag 135

<210> 416
<211> 186
<212> DNA
<213> Zea mays

<400> 416

agagaatcga gcagagccac ccggctgctc ctcatctcca cttccactc cgctccgct 60

gccgatcgcc gtccccgacc gcagtgcagg actgaggatg agtgaagagg ataaggctgc 120

agcttctgct gagcagccta agagggcccc taagctcaat gaaaggatcc tctcctctct 180

gtccag 186

<210> 417

<211> 303

<212> DNA

<213> Zea mays

<400> 417

aaccgctccg ccacctcgcc actcgctctc tctcgctctc gccaccgggc caggggaagg 60

accatccgat cggatccgctc atggctggag ctgctgctct caatgagggt atcctttctt 120

ccgtgtccga gaaaaatggt gctgctcacc catggcatga tttggagata ggaccagagg 180

ctcctgcagt gttcaattgt gtggttgaga ttcctagagg cagcaagggt aagtatgagt 240

tggacaagat atctggtctg atcaagggtg atcgtgtcct ttactcctct gttgtttacc 300

cac 303

<210> 418

<211> 290

<212> DNA

<213> Zea mays

<400> 418

ctcgaggccg ctccgccacc tcgccactcg cctcttctcg ctctcgccac cggggccagg 60

aagggaccat ccgatcggct ccgtcatggc tggagctgct gctctcaatg agggatcct 120

ttcttccgtg tccgagaaaa atgttgctgc tcacccatgg catgatttgg agataggacc 180

agaggctcct gaagtgttca attgtgtggt tgagattcct agaggcagca aggttaagta 240

tgagttggac aagatatctg gtctgatcaa ggtggatcgt gtcctttact 290

<210> 419

<211> 309

<212> DNA

<213> Zea mays

<400> 419

tggacagcag cagtgaactc gacgccgctc cgccacctcg cactcgcct cttctcgctc 60
tcgccaccgg gccaggggaag ggaccatccg atcggctccg tcatggctgg agctgctgct 120
ctcaatgagg gtatcctttc ttccgtgtcc gagaaaaatg ttgctgctca cccatggcat 180
gatttgagga taggaccaga ggctcctgaa gtgttcaatt gtgtggttga gattcctaga 240
ggcagcaagg ttaagtatga gttggacaag atatctggtc tgatcaagggt ggatcgtgtc 300
ctttactcc 309

<210> 420

<211> 258

<212> DNA

<213> Zea mays

<400> 420

ctcgaggccg ctccgccacc tcgccactcg cctcttctcg ctctcgccac cgggccaggg 60
aagggaccat ccgatcggct ccgtcatggc tggagctgct gctctcaatg agggatcct 120
ttcttccgtg tccgagaaaa atgttgctgc tcacccatgg catgatttgg agataggacc 180
agaggctcct gaagtgttca attgtgtggt tgagattcct agaggcagca aggttaagta 240
tgagttggac aagatatc 258

<210> 421

<211> 293

<212> DNA

<213> Zea mays

<400> 421

tgcagcagtg aactcgaggc cgctccgcc cctcgccact cgctcttct cgtctcgcc 60
accgggccag gtgaagggaac catccgatcg gctccgtcat ggctggagct gctgctctca 120
atgagggtat cctttcttcc gtgtccgaga aaaatgttgc tgctcaccca tggcatgatt 180
tggagatagg accagaggct cctgaagtgt tcaattgtgt ggttgagatt cctagaggca 240
gcaagggttaa gtatgagttg gacaagatat ctggtctgat caaggtggat cgt 293

<210> 422

<211> 315

<212> DNA
 <213> Zea mays
 <400> 422
 gccctggaca gcagcagcga actcgaggcc gctccgccac ctcgccactc gcctcttctc 60
 gctctcgcca ccgggccagg ggcgggacca tccgatcggc tccgtcatgg ctggagctgc 120
 tgctctcaat gagggtatcc tttcttccgt gtccgagaaa aatgttgctg ctcacccatg 180
 gcatgatttg gagataggac cagaggctcc tgaagtgttc aattgtgtgg ttgagattcc 240
 tagaggcagc aagggttaagt atgagttgga caagatatct ggtctgatac aggtggatcg 300
 tgtcctttac tctc 315

<210> 423
 <211> 254
 <212> DNA
 <213> Zea mays
 <400> 423
 ctcgaggccg ctccgccacc tcgccactcg cctcttctcg ctctcgccac cgggccaggg 60
 aagggaccat ccgatcggct ccgtcatggc tggagctgct gctctcaatg agggatcctc 120
 ttcttccgtg tccgagaaaa atgttgctgc tcacccatgg catgatttgg agataggacc 180
 agaggctcct gaagtgttca attgtgtggt tgagattcct agaggcagca aggttaagta 240
 tgagttggac aaga 254

<210> 424
 <211> 266
 <212> DNA
 <213> Zea mays
 <400> 424
 cgccccggag ccctggacag cagcagtga ctcgaggccg ctccgccacc tcgccactcg 60
 cctcttctcg ctctcgccac cgggccaggg aagggaccat ccgatcggct ccgtcatggc 120
 tggagctgct gctctcaatg agggatcct ttcttccgtg tccgagaaaa atgttgctgc 180
 tcacccatgg catgatttgg agataggacc agaggctcct gaagtgttca attgtgtggt 240
 tgagattcct agaggcagca aggtta 266

<210> 425
 <211> 260
 <212> DNA
 <213> Zea mays

 <400> 425

 ggagccctgg acagcagcag tgaactcgag gccgctccgc cacctcgcca ctgcctctt 60
 ctgcctctcg ccaccggggc agggaaacgga ccatccgata ggctccgtca tggctggagc 120
 tgctgctctc aatgagggta tcctttcttc cgtgtccgag aaaaatgttg ctgctcacc 180
 atgcattgat ttggagatag gaccagaggc tcctgaagtg ttcaattgtg tggttgagat 240
 tcctagaggc agcaaggta 260

<210> 426
 <211> 278
 <212> DNA
 <213> Zea mays

 <400> 426

 gttgccatta tatcagcata ttggctgggg cagacctctg gcttggtgga cgagtctggc 60
 aaccaactg gtggtctttt tgggacagct gtagcaacaa tggggatgct tagcactgca 120
 gggatatgtt tcaccatgga catgtttggt cctatagctg acaacgctgg tggattgtt 180
 gagatgagcc agcagcctga aagtgtgagg gaaatcacag atgttctaga tgctgtgggc 240
 aacacaacta aagctactac gaaaggattt gccatagg 278

<210> 427
 <211> 277
 <212> DNA
 <213> Zea mays

 <400> 427

 atcacccatg gccgttggcg ttgtcttccg gatctttgggc cactacactg gtcagcctct 60
 tcttgagct aaagtgttag cctccatgct gatgtttgcg acggtcgctg ggattctcat 120
 ggcactcttg cttgaacact gctggcggcg cctgggataa tgcaaagaag tacattgaga 180
 ctggcgctct tgggtggcaag ggcagcgagt cccacaaggc tgcggttact ggcgacacgg 240
 ttggagaccc attcaaagac actgctggac cgctcgct 277

<210> 428
 <211> 265
 <212> DNA
 <213> Zea mays

 <400> 428

 ttttgtttca attgtcaggt ggttgagatt cctagaggca gcaaggtaa gtacgagttg 60
 gacaaggcat ctggtctgat caagggtggac cgtgttcttt attcctctgt tgtttaccca 120
 cataactatg gcttcattcc acgcacactc tgtgaggata acgaccccct ggatgtcctc 180
 atactgatgc aggaacaagt tgtccctggg tgtttcctgc gagctcgtgc tattgggctc 240
 atgcctatga tcgatcaggg cgaga 265

<210> 429
 <211> 302
 <212> DNA
 <213> Zea mays

 <400> 429

 cacactgatc cggcctggag cgctggacag cagcagcagc atcgagctcg aggccgctcc 60
 gccaccccg c actcgctgt cgctcttct cgctttcgcc accggggcag cgctccgcca 120
 tggctggacc tgctgttctc aatgagcgta tcctttcttc catgtcccag aaacatgttg 180
 ctgctcacc atggcatgat ttggagatag gaccaggggc tcctgaattc ttcaattgtg 240
 tggttgagat tcctagaggc agcaaggta agtacgagtt ggacaaggca tctggtctga 300
 tc 302

<210> 430
 <211> 287
 <212> DNA
 <213> Zea mays

 <400> 430

 gctcgaggcc gctcgccacc ccgcactcgc ctgtagcctc ttctcgcttt cgccaccggg 60
 gcagcgctcc gccatggctg gacctgctgt tctcaatgag cgtatccttt cttccatgtc 120
 tcagaaacat gttgctgctc acccatggca tgatttgag ataggaccag gggctcctga 180
 attcttcaat tgtgtggttg agattcctag aggcagcaag gttaagtacg agttggacaa 240
 ggcattctgt ctgatccagg tcgacgtgtt ctttattcct ctggtgg 287

<210> 431
 <211> 266
 <212> DNA
 <213> Zea mays

 <400> 431

 cccacgcgtc cgcacactga tccggcctgg agcgcctggac agcagcagca gcagcagcat 60
 cgagctcgag gccgctccgc caccgccac tcgcctgtcg cctcttctcg ctttcgccac 120
 cggggcagcg ctccgccatg gctggacctg ctgttctcaa tgagcgtatc ctttcttcca 180
 tgtcccagaa acatgttgct gctcacccat ggcattgatt ggagatagga ccaggggctc 240
 ctgaattctt caattgtgtg gttgag 266

<210> 432
 <211> 239
 <212> DNA
 <213> Zea mays

 <400> 432

 cccacgcgtc cgatcacact gatccggcct ggagcgcctg acagcagcag cagcagcagc 60
 atcgagctcg aggccgctcc gccacccgc actcgcctgt cgctcttctc cgctttcgcc 120
 accggggcag cgctccgcc tggctggacc tgctgttctc aatgagcgta tcctttcttc 180
 catgtcccag aaacatgttg ctgctaccc atggcatgat ttggagatag gaccagggg 239

<210> 433
 <211> 211
 <212> DNA
 <213> Zea mays

 <400> 433

 tgatccggcc tggagcgtg gacagcagca gcagcatcga gctcgaggcc gctccgccac 60
 cccgcaactcg cctgtcgctt cttctcgctt tcgccaccgg ggcagcgtc cgccatggct 120
 ggacctgctg ttctcaatga gcgtatcctt tcttccatgt ccagaaaaca tgttgctgct 180
 caccatggc atgatttgga gataggacca g 211

<210> 434
 <211> 260

<212> DNA
<213> Zea mays

<400> 434

gacagcagca gcagcagcag catcgagctc gaggccgctc cgccaccccg cactcgcttg 60
tcgcctcttc tagctttcgc caccggggca gcgctccgcc atggctggac ctgctgttct 120
caatgagcgt atcctttctt ccatgtccca gaaacatgtt gctgctcacc catggcatga 180
tttgagata ggtggttgag attcctagag gcagcaaggt taagtacgag ttggacaagg 240
catctggtct gatcaaggtg 260

<210> 435
<211> 376
<212> DNA
<213> Zea mays

<220>
<221> unsure
<222> (1)..(376)
<223> unsure at all n locations

<400> 435

gctctcncct caccgcctcc aggagatccg ccgcttcttc gaagactaca agaagaacga 60
gaacaaggag gtggccgtca acgacttctt gcccgcgcgc gctgcccgcg aaccatccag 120
tactccatgg acctgtacgg ccagtacatc atgcagaccc tgcggcggta gagcgtgtcc 180
taccagatcc catgcgagct gagctgacgc aagagcacag atcgacagaa tccttggtgt 240
ctcgtctcat gcatggatag ccaggtcaca tggttggtcg acgaccatgc atctcttctt 300
cccagcgatt ttagcctgta tcttccctta tttatagtct tttggggttg gtggaatctg 360
tccacagtgt ggtttg 376

<210> 436
<211> 268
<212> DNA
<213> Zea mays

<400> 436

cccacgcgtc cggcaggaac aagttgtccc tgggtgtttt ctgcgagctc gtgctattgg 60
gctcatgcct atgatcgatc agggtgagaa agatgataag atcatagctg tctgtgctga 120

tgaccctgaa ttccgtcact acaaggacat ctccggacctc cccccgcacg gccttcaaga 180
gatccgccgc ttttttgaag attataaaaa gaatgaaaac aaagaagttg cagtgaatga 240
tttcctccca gccgaagatg ccatcaaa 268

<210> 437
<211> 248
<212> DNA
<213> Zea mays

<400> 437

agatgataag attatagcag tctgtgctga tgaccctgaa ttccgtcact acacggacat 60
cacggacctc ccaccgcacg gccttcaaga gatccgccgc ttttttgaag attataaaaa 120
gaacgaaaac aaggaggtcg cagtgaatga gttcctgccg gcgaaagatg ccatcaacgc 180
aatcaagtac tcgatggacc tgtatggctc atacgtcacg gaaagcctga ggaagtgatc 240
tccagctg 248

<210> 438
<211> 274
<212> DNA
<213> Zea mays

<400> 438

gagataccaa ggggcagcaa ggttaaata gaacttgaca agaaaactgg actgatcaag 60
gtggaccgtg tgctgtattc atcagttgtt taccctcaca actatggatt cattcctcgc 120
acgctttgtg aagacagtga tcctttggat gtactgggta taatgcagga gcctgttacc 180
ccaggctggt tcctacgtgc gaaggccacg ggccttatgc cgatgattga tcaggagag 240
gcagatgaca agatcattgc agtgtgcgct gatg 274

<210> 439
<211> 292
<212> DNA
<213> Zea mays

<400> 439

caagggttaa tatgaacttg acaagaaaac tggactgatc aaggtggacc gtgtgctgta 60
ttcatcagtt gtttaccctc acaactatgg attcattcct cgcacgcttt gtgaagacag 120

tgatcctttg gatgtactgg ttataatgca ggagcctgtt atcccaggct gtttcctacg 180
 tgcgaaggcc atcggcctta tgccgatgat tgatcaggga gaggcagatg acaagatcat 240
 tgcagtgtgc gctgatgatc ccgagtacag gcattacaat gatatcaagg ag 292

<210> 440
 <211> 321
 <212> DNA
 <213> Zea mays

<400> 440

ggcgccccgt gtagaagccg tgaaggagac aggcaccttc cagaagggtc ctgccttgaa 60
 cgaaaggata ctgtcatcca tgtccaggag gtctgttgct gcacaccctt ggcatgatct 120
 ggagataggt cctgggtgctc caaccatatt caactgcgtc attgagatac caaggggcag 180
 ctaggttaaa tatgaacttg acaagaaaac tggactgatc aaggtggacc gtgtgctgta 240
 ttcatcagtt gtttaccctc acaactatgg attcattcct cgcacgcttt gtgaagacag 300
 tgatcctttg gatgtactgg t 321

<210> 441
 <211> 276
 <212> DNA
 <213> Zea mays

<400> 441

cacacccttg gcatgatctg gagataggtc ctgggtgctc aaccatattc aactgcgtca 60
 ttgagatacc aaggggcagc aaggttaa atgaacttga caagaaaact ggactgatca 120
 aggtggaccg tgtgctgtat tcatcagttg tttaccctca caactatgga ttcattcctc 180
 gcacgctttg tgaagacagt gatcctttgg atgtactggt tataatgcag gagcctgtta 240
 tcccaggctg tttcctacgt gcgaaggcca tcggcc 276

<210> 442
 <211> 272
 <212> DNA
 <213> Zea mays

<400> 442

ctggactgat caaggtggac cgtgtgctgt attcatcagt tgtttaccct cacaactatg 60

gattcattcc tgcacgctt tgtgaagaca gtgacccctt ggatgtactg gttataatgc 120
 aggagcctgt tatcccaggc tgtttcctac gtgcgaaggc catcggcctt atgccgatga 180
 ttgatcaggg agaggcagat gacaagatca ttgcagtgtg cgctgatgat cccgagtaca 240
 ggcattacaa tgatatcaag gagctccac ct 272

<210> 443
 <211> 270
 <212> DNA
 <213> Zea mays

<220>
 <221> unsure
 <222> (1)..(270)
 <223> unsure at all n locations

<400> 443

gatgtactgg ttataatgca ggngcctgtt atcccaggct gtttcctacg tgcgaaggcc 60
 atcggcctta tgccgatgat tgatcagggg gaggcagatg acaagatcat tgcagtgtgc 120
 gctgatgatc ccgagtacag gcattacaat gatatcaagg agctcccacc tcaccgcttg 180
 gctgaaatca ggcgcttctt cgaggactac aagaagaatg agaacaagga ggttgctgtg 240
 aatgactttc taccagcgag cgccgcttat 270

<210> 444
 <211> 245
 <212> DNA
 <213> Zea mays

<400> 444

gcacgagatt cattcctcgc acgctttgtg aagacagtga tcctttggat gtactggtta 60
 taatgcagga gcctgttatc ccaggctgtt tctacgtgc gaaggccatc ggccttatgc 120
 cgatgattga tcaggagag gcagatgaca agatcattgc agtgtgcgct gatgatcccg 180
 agtacaggca ttacaatgat atcaaggagc tcccacctca ccgcttggtt gaaatcaggc 240
 gcttc 245

<210> 445
 <211> 306
 <212> DNA
 <213> Zea mays

<400> 445

ccgtgtgctg tattcatcag ttgtttaccc tcacaactat ggattcattc ctcgcacgct 60
ttgtgaagac agtgatcctt tggatgtact ggttataatg caggagcctg ttatcccagg 120
ctgtttccta cgtgcgaagg ccatcggcct tatgccgatg attgatcagg gagaggcaga 180
tgacaagatc attgcagtgt gcgctgatga tcccgagtac aggcattaca atgatatcaa 240
ggagctccca cctcaccgct tggctgaaat caggcgcttc ttcgaggact acaagaagaa 300
tgagaa 306

<210> 446

<211> 310

<212> DNA

<213> Zea mays

<220>

<221> unsure

<222> (1)..(310)

<223> unsure at all n locations

<400> 446

caggctgttt cctacgtgcg aagccatcgg cttatgccga tgattgatca gggagaggca 60
gatgacaaga tcattgcagt gtgcgctgat gatcccgagt acaggcatta caatgatatc 120
aaggagctcc cacctcaccg cttggctgaa atcaggcgct tcttcgagga ctacaagaag 180
aatgagaaca aggaggttgc tgtgaatgac tttctaccag cgagcgccgc ttatgaagcc 240
atacagcact ctatggacct gtatgctaca tacatcgttg naggcatgag gaggtaagat 300
tctgatggct 310

<210> 447

<211> 273

<212> DNA

<213> Zea mays

<400> 447

gttccaacca tattcaactg cgtcattgag ataccaaggg gcagcaaggt tagctatgaa 60
cttgacaaga aaactggact gatcaagggtg gaccgtgtgc tgtattcatc agttgtttac 120
cctcacaact atggattcat tctcgcacg ctttgtgaag acagtgatcc tttggatgta 180

ctggttataa tgcaggagcc tgtcatccca ggctgtttcc tacgtgcgaa ggccatcggc 240
 tttatgccga tgattgatca gggagaggca gat 273

<210> 448
 <211> 310
 <212> DNA
 <213> Zea mays

<220>
 <221> unsure
 <222> (1)..(310)
 <223> unsure at all n locations

<400> 448

atgaactgtt tgtgtcaccc atgttcctct gctccttggc actttctgat gcatgctcaa 60
 atgcttaaga aagactcata gaagcgactc ctattcctat gccaggatcat tgagatacca 120
 aggggcagca aggttaaata tgnacttgac aagaaaactg gactgctcaa ggtggaccgt 180
 gtgctgtatt catcagttgt ttaccctcac aactatggat tcattcctcg cacgctttgt 240
 gaagacagtg atcctttgga tgtactgggt ataatgcagg agcctgttat cccaggctgt 300
 ttcctacgtg 310

<210> 449
 <211> 192
 <212> DNA
 <213> Zea mays

<400> 449

gcatgatctg gagataggtc ctggtgctcc aaccatattc aactgcgtca ttgagatacc 60
 aaggggcagc aaggttaaata atgaacttga caagaaaact ggactgatca aggtggaccg 120
 tgtgctgtat tcacagttg tttaccctca caactatgga ttcattcctc gcacgctttg 180
 tgaagacagt ga 192

<210> 450
 <211> 225
 <212> DNA
 <213> Zea mays

<400> 450

gggtgatggc cccgagtgcg ggcgttgccg tggatcgag ggcctcccgc ctcgccgctt 60

ggctgagatc aggcgcttct tcgaggactg cgagaagaat gagagcgagg cggctgctgt 120
 gaatgacttt ctgccggcga gcgccgcttg tgaagccgtg cggcgctctg tgggcctgtg 180
 tgctgcgtgc gtcgttgagg gcctgaggag gtaggattct gatgg 225

<210> 451
 <211> 244
 <212> DNA
 <213> Zea mays

<400> 451

cgccgctgac ccaggttgtc ttgatggcgc ccgctgtaga agccgtgaag gagacaggca 60
 ccttccagaa ggttcttgcc ttgaacgaaa ggatactgtc agccatgtcc aggaggtctg 120
 ttgctgcaca cccttgcat gatctggaga taggtcctgg tgctccaacc atattcaact 180
 gcgtcattga gataccaagg ggctactagg ttaaatatga acttgacaag aaaactggac 240
 tgat 244

<210> 452
 <211> 311
 <212> DNA
 <213> Zea mays

<400> 452

cggctccgtc gtcgcgtgcc atcctagggc ttctttcccc gtcggcgccct cccagattt 60
 ggccgcgcgc gccgctgacc caggttgctc tgatggcgcc cgctgtagaa gccgtgaagg 120
 agacaggcac cttccagaag gttcctgcct tgaacgaaag gatactgtca tccatgtcca 180
 ggaggtctgt tgctgcacac ccttgcatg atctggagat aggtcctggg gctccaacca 240
 tattcaactg cgtcattgag ataccaaggg gcagcaaggc taaatatgaa cttgacaaga 300
 aaactggact g 311

<210> 453
 <211> 301
 <212> DNA
 <213> Zea mays

<400> 453

agctccgtcg tcgcgtgcca tcctaggggt tctttccccg tcggcgccct cccagatttg 60

gcccgcgccc ccgctgaccc aggttgtctt gatggcgccc gctgtagaag cctgaagga 120
gacaggcacc ttccagaagg ttctgcctt gaacgaaagg atactgtcat ccatgtccag 180
gaggtctgtt gctgcacacc cttggcatga tctggagata ggtcctggtg ctccaaccat 240
attcaactgc gtcattgaga taccaagggg cagcaagggt aaatatgaac ttgacaagaa 300
a 301

<210> 454
<211> 290
<212> DNA
<213> Zea mays
<400> 454

ctgaaatcag gcgcttcttc gaggactaca agaagaatga gaacaaggag gttgctgtga 60
atgactttct accagcgagc gccgcttatg aagccataca gcactctatg gacctgtatg 120
ctacatacat cgttgagggc ctgaggaggt aggattctga tggctaggaa aggtggggag 180
gatgttgacg aaaaactggg agaccattta ccgcatggaa cgagtaccgt tattatttta 240
tttgtgtcgt gtatactgct agtagtgaac cctcaatcaa agaccgaaat 290

<210> 455
<211> 249
<212> DNA
<213> Zea mays
<400> 455

ccagatttgg ccgcccgcgc cgctgacca ggttgtcttg atggcgcccg ctgtagaagc 60
cgtgaaggag acaggcacct tccagaaggt tctgccttg aacgatagga tactgtcatc 120
catgtccagg aggtctgttg ctgcacaccc ttggcatgat ctggagatag gtctggtgc 180
tccaaccata ttcaactgcg tcattgagat accaggggca gcaaggttag atatgaactt 240
gacaagaaa 249

<210> 456
<211> 312
<212> DNA
<213> Zea mays
<400> 456

ctgacgcgtg ggcggacgcg tgggcggctc cgtcgtcgcg tgccatccta gggtttcttt 60
 ccccgtcggc gcctccccag atttgccgcg cgcgcgcgct gacgcagggt gtcctatatg 120
 gcgcccgcgtg tagaagccgt gaaggagaca ggcaccttcc agaaggttcc tgccttgaac 180
 gaaaggatac tgtcatccat gtccaggagg tctgttgctg cacacccttg gcatgggtctg 240
 gagatagggtc ctggtgctcc aaccatattc aactgcgtca ttgagatacc aaggggcagc 300
 aaggttaaat at 312

<210> 457
 <211> 359
 <212> DNA
 <213> Zea mays

<220>
 <221> unsure
 <222> (1)..(359)
 <223> unsure at all n locations
 <400> 457

aggaaataga aagtctccct ggactctaaa atcaatgcct gtgaacacat gaactgtttg 60
 tgtcacccat gttcctctgc tccttggcac tttctgatgg atgctcaa at gcttaagaaa 120
 gactcataga agcgactcct attcctatgc cagggtcattg agataccaag gggcagcaag 180
 gttaaatatg gacttgcaag aaaactggac tgatcaagggt ggaccgtgtg ctgtattcat 240
 cagttgttta cctcacaac tatggattca ttcctgcac gctttgtgaa gacagtgatc 300
 ctttggtatg actggttata atgcangagc ctgttatccc aggctgtttc ctacgtgcg 359

<210> 458
 <211> 293
 <212> DNA
 <213> Zea mays
 <400> 458

gactagttct agatcccggc tccgtcgtcg tcgtgccatc ctagggtttc tttccccgctc 60
 ggcgcctccc cagatttggc cgccgccgcc gctgaccag gttgtcttga tggcgcccgg 120
 ctgtagaagc cgtgaaggag acaggcacct tccagaagggt tctgccttg aacgaaagga 180
 tactgtcatc catgtccagg aggtctgttg ctgcacaccc ttggcatgat ctggagatag 240

gtcctggtgc tccaaccata ttcaactgcg tcattgagat accaaggggc agc 293

<210> 459
 <211> 290
 <212> DNA
 <213> Zea mays

<400> 459

actagttcta gatcccggtc cgcgcgcgc gtgccatcct agggtttctt tccccgcgcg 60
 cgcctcccca gatttgccgc cgcgcgcgc tgaccaggt tgtcttgatg gcgcccgcgc 120
 tagaagccgt gaaggagaca ggcaccttc agaaggttc tgccttgaa gaaaggatac 180
 tgtcatccat gtccaggagg tctgttgctg cacacccttg gcatgatctg gagataggtc 240
 ctggtgctcc aaccatattc aactgcgtca ttgagatacc aaggggcagc 290

<210> 460
 <211> 277
 <212> DNA
 <213> Zea mays

<400> 460

cggctcgagg gctccgctgc cgcgtgccat cctagggttt ctttccccgt cggcgcctcc 60
 ccagatttgg ccgcgcgcgc cgctgacca ggttgcttg atggcgccgc ctgtagaagc 120
 cgtgaaggag acaggcacct tccagaagg tctgccttg aacgaaagga tactgtcatc 180
 catgtccagg aggtctgttg ctgcacacc ttggcatgat ctggagatag gtcctggtgc 240
 tccaaccata ttcaactgcg taaggccacc ctgtcat 277

<210> 461
 <211> 265
 <212> DNA
 <213> Zea mays

<400> 461

cggacgctgg gcggctccgt cgtcgcgtgc catcctaggg tttctttccc cgtcggcgcc 60
 tccccagatt acgcgcgcgc cgccgtgac ccaggttgtc ttgatggcgc ccgctgtaga 120
 agccgtgaag gagacaggca ccttcagaa ggttcctgcc ttgaacgaaa ggatactgtc 180
 atccatgtcc aggaggtctg ttgctgcaca cccttggcat gatctggaga taggtcctgg 240

tgctccaacc atattcaact gcgtc 265

<210> 462
 <211> 183
 <212> DNA
 <213> Zea mays

<400> 462

gctgaaatca ggcgcttcta cgaggactac aagaagaatg agaacaagga gggtgctgtg 60
 aatgactttc taccagcgag cgccgctatg aagccatata gcactctatg gacctgtatg 120
 ctacatacat cgttgagggc ctgaggaggt aggattctga tggctaggaa aggtggggag 180
 gat 183

<210> 463
 <211> 291
 <212> DNA
 <213> Zea mays

<220>
 <221> unsure
 <222> (1)..(291)
 <223> unsure at all n locations

<400> 463

caatgattga tgaggagag cttgactgga aaattgtggc catttctttg gatgacccga 60
 aagcatctct tgtgaacgac gtggatgatg ttgagaagca ttttccgggg acactgactg 120
 ccatcagaga ctggttcaga gactacaaga tacctgatgg aaagcctgcc aacaaatttg 180
 gtctcgga caagcccgca agcaaggaat acgccctgaa ggtcattcaa gagaccaacg 240
 aatcatggga gaaattggta nagagaaata ttcccgtgg agagctctcg t 291

<210> 464
 <211> 281
 <212> DNA
 <213> Zea mays

<400> 464

ccgaaagcat ctcttgtgaa cgacgtggat gatgttgaga agcattttcc ggggacactg 60
 actgccatca gagactggtt cagagactac aagatactg atggaaagcc tgccaacaaa 120
 tttggtctcg gcaacaagcc cgcaagcaag gaatacgccc tgaaggtcat tcaagagacc 180

aacgaatcat gggagaaatt ggtaaagaga aatattcccg ctggagagct ctcgttggcc 240
 tgattttggc ccatggaagc caccacattc ttttgaactg c 281

<210> 465
 <211> 269
 <212> DNA
 <213> Zea mays

<400> 465

tgttgagaag cattttccgg ggacactgac tgccatcaga gactggttca gagactacaa 60
 gatacctgat ggaaagcctg ccaacaaatt tgggtctcggc aacaagcccg caagcaagga 120
 atacgccctg aaggtcattc aagagaccaa cgaatcatgg gagaaattgg taaagagaaa 180
 tattcccgct ggagagctct cgttggcctg attttgggccc atggaagcca ccacattctt 240
 ttgaactgct ttcgtgagca tgtcgtttt 269

<210> 466
 <211> 257
 <212> DNA
 <213> Zea mays

<400> 466

gacccaactt ctgcaaattc tgaggttgaa ggagcgtttg gggataatga tcctgttgat 60
 gttgttgaga tcggtgaaag acgtgccaat gtcggggatg ttcttaagggt taagccattg 120
 gcagcttttag caatgattga tgaggggagca gcttgactgg aaaattgtgg ccatttcttt 180
 ggatgacccg aaagcatctc ttgtgaacga cgtagatgat gttcaacagc ttttccgggg 240
 acactactgc catcaga 257

<210> 467
 <211> 325
 <212> DNA
 <213> Zea mays

<400> 467

gtttgccgat cgagcccggg cgacgtgaga tacgagcggc gtcgaccggc gccggcgagc 60
 ctccgcagcc gcagccgccc gatctgggtt ttctttcgta gcggtagcgc aagatgagcc 120
 aggaccagga gaacggaggc accaacgggc agcacgccgc cgacgtcatg gaggtggagc 180

cgaagcgccg ggcgccgcgg ctgaacgagc gcatacctgtc gtcgctgtcg cggagggtccg 240
 tcgccgcgca cccctggcac gacctcgaga tcggctcctga agctccggcc gtcttcaacg 300
 tcgtcgtgga gatcaccaag gggag 325

<210> 468
 <211> 227
 <212> DNA
 <213> Zea mays

<220>
 <221> unsure
 <222> (1)..(227)
 <223> unsure at all n locations

<400> 468

cgtagtntag cggaagatga gccaggacca ggagaacgga ggcaccaacg ggcagcacgc 60
 cgccgacgtg atggagggtg agccgaagcg ccgggcgccg cggctgaacg agcgcatacct 120
 gtcgtcgtcg tcgctggaggc ccgtcgccgc gcacccctgg cagcacctcg agatcggtcc 180
 tgaagctccg gccgtcttca acgtcgtcgt ggagatcacc aagggga 227

<210> 469
 <211> 462
 <212> DNA
 <213> Zea mays

<220>
 <221> unsure
 <222> (1)..(462)
 <223> unsure at all n locations

<400> 469

agttgtgtat gtcacgggtc gatgcgcgcc actctcacat gcctnccgct gtcaggcagc 60
 gccaccggct ctgtttcgtc atgggttatga caaaagtga tgcagttctc cgttgccgat 120
 tctcggaatc gggtttctga ttgatgcctg aaatttcata atgattagcg tttatgggtg 180
 atttcaacga tgaggggggt cccaagggt atgctttccc tctcacgatg cctactgtta 240
 ctctgattga gtgaagattt gcaaccttca ctcacaggtc agctgctgca catccgtggc 300
 atttcgtgta gattgttcca taagcgccta ctgttttcaa ctgtgtagtt gtcattatca 360
 agagtagtac gggttaagtat gagctacaca cagacagtag acttaattgg gctgatcacg 420

ttctctattc aaccattatt tacccccaaa gctacggttt ca 462

<210> 470
 <211> 408
 <212> DNA
 <213> Zea mays

<400> 470

gggtggcgta cttcacgtcg cgggtgcggtc tacaattaga gtcgagcacg cgtccgatca 60
 tagtccgtgt acgcgtccaa tgacgtctct tgcacagcgc accataactc agcatttact 120
 gaacatggac tgcagctccc ctcggaggcg tcctcgctgg catgagcggg agaggagcta 180
 ctggtactac atctaatagc atggactggt ctggtgaatg tggaccgtct gctttaatca 240
 tcaattattht aagctcataa ctatggattc attcctcaca cgctttgtga acacagtgat 300
 cctttggatg tactggttat aatgcaggag cctgttatcc caggctgttt cctatgtgcg 360
 attgcaatcg gccttatccc gaatattgat cagggagaag cagatgac 408

<210> 471
 <211> 424
 <212> DNA
 <213> Zea mays

<400> 471

agcgtcaccg tcctgggtgat cacgcccaga tcaaatacta ttcaaatttg gagcgcaata 60
 tggctgaaga gaagagccgt ccgcggctga acgagcggat catgtcgtcc ctctcaaagc 120
 ggtcggtcgc tgcgcattcc tggcatgacc ttgagatagg acctggagcc cctgctgttt 180
 tcaattgtgt tgttgagatc acaaagggca gtaaagtga atatgagcta gacaagaaga 240
 ccggaatgat caaggttgac agggtgctat actcatcagt ggtctacca cacaactacg 300
 gtttcattcc acgaacattg tgtgaagacg gagatccaat ggatgtgctg gtgttgatgc 360
 aggaaccggt gatacctggc tgttttcttc gggcaagggc catcggcctt atgcccata 420
 ttga 424

<210> 472
 <211> 472
 <212> DNA
 <213> Zea mays

<220>
 <221> unsure
 <222> (1)..(472)
 <223> unsure at all n locations

 <400> 472

 agaaatggtg tnnncctaaa tctcagcctg atnctttacc actccctccg gnatccgggc 60
 aagcgccgga tccacgcgtc ccgtgactcg tggtcgggtgc cccgttgcgct ctctgtaaaa 120
 ccagacggcg aaccactgct gcggtccact gcatccccggg tccgtcttct cgtgccatgc 180
 tacggttgct ttctcccgtc ggcgcctgcg cagatttggc cgccgtcgcc gctgacctag 240
 gctgtcttga tggcgcccgga tgcagaagcc gctaagggga caggcacctg tccacaaagg 300
 tgctctgcca ttgaacgaaa ggatactggc atgcatgtcc aggaggtctg ctgctggaca 360
 cccttgcat gatctggaga taggcctg agctccaacc atattcaact gcgtcattga 420
 gatacccagg ggcagcaagg ttaatatga acttgacaag gaaactggac tg 472

<210> 473
 <211> 239
 <212> DNA
 <213> Zea mays

<400> 473

 catgtacacc gtcttaagag agttaaatgt tagtgcttgc ctctgttag attgaatggg 60
 cggtttaacc gagacattca gacaagaaga atgagaacaa ggaggttgct gcgaatgact 120
 ttctaccagc gagcgccgct tatgaagcca tacagcactc tatggacctg tatgctacat 180
 acatcgcttg agggcctgaa gaggtaggat tctgatggct aggaaaggct gcgaggatg 239

<210> 474
 <211> 429
 <212> DNA
 <213> Zea mays

<400> 474

 cccacgcgtc cgccgaaact ccgacagtcc gaccacaaga aggatgagtg aagaggatga 60
 gactgctgct tctgctgagc agccgaagag ggcccctaag ctcaatgaaa ggatcctctc 120
 ttctctgtcc aggaggtccg tagctgtca tccatggcat gatcttgaga tcggtcctga 180

tgctcctgct gttttcaatg ttgttggtga gatcacaaag ggaagcaaag ttaaatatga 240
 gcttgacaag aaaactggac tgattaaggt tgatcgagtc ctgtactcat cagttgtata 300
 ccctcacaat tatggtttcg ttccaaggac tctttgtgaa gacaatgacc caatggatgt 360
 gttagtcttg atgcaggagc ctgttggtcc tggttcggtc ctgagagcaa gagcaatcgg 420
 ccttatgcc 429

<210> 475
 <211> 399
 <212> DNA
 <213> Zea mays

<400> 475

cggccccacct ggaagccgga gagaatcgag catagccacc gatcgctcct ctccactggg 60
 cagattccag ttccactccg cctccgctgc cggtcgccga ctccgaaact ccgacagtcc 120
 gaccacaatg atccacatat agatgagtgg agaggataag gctgctgctt ctgctgagca 180
 gccgaagagg gccctaagc tcaatgaaag gatcctctct tctctgtcca ggaggtccgt 240
 agctgctcat acgtggcatg atcttgagat cggtcctgat gtcctgctg ttttcaatgt 300
 tgatgttgag atcacaaagg gaagcaaagt taaatatgag ctgcacaaga aaactggact 360
 gattaagggt gatcgagtcc tgtactcatc agttgtata 399

<210> 476
 <211> 390
 <212> DNA
 <213> Zea mays

<400> 476

ccgcagtgca ggactgagga tgagtgaaga ggataaggct gctgcttctg ctgagcggcc 60
 taagagggcc cctaagctca atgaaaggat cctctcctct ctgtccagga ggtccgtagc 120
 tgctcatcca tggcatgac tcgagatcgg tcttggtgct cctgctgtat tcaatgttgt 180
 tgttgagatc acaaagggaa gcaaagtcaa atacgagctt gacaagaaaa ctggactgat 240
 taaggttgat cgagtccttt actcatcagt tgtataacct cacaattatg gtttcattcc 300
 aaggactctt tgtgaagaca atgacccaat ggatgtgttg gtcctgatgc aggagcctgt 360
 tgttcctggt tcgttcctga gagctagagc 390

<210> 477
 <211> 398
 <212> DNA
 <213> Zea mays

<220>
 <221> unsure
 <222> (1)..(398)
 <223> unsure at all n locations

<400> 477

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gattccagtt ccactccgcc tccgctgccg gtcgccgact ccgaaactcc gacagtccga 120
ccacaaggtc ttgtgcgga tccacagaag gatgagtga gaggataaga ctgctgcttc 180
tgctgagcag ccgaagaggg cccctaagct caatgaaagg atcctctctt ctctgtccag 240
gaggtcgta gctgctcatc cgtggcatga tcttgagatc ggtcctgatg ctctgtgtgt 300
tttcaatggt gttgttgaga tcacaaaggg aagcanagtt aaatatgagc ttgacaagaa 360
aactggactg attaanggtg atcgagtcct atactcat 398
```

<210> 478
 <211> 362
 <212> DNA
 <213> Zea mays

<400> 478

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gggaagcaaa gttaaatatg agcttgacaa gaaaactgga ctgattaagg ttgatcgagt 60
cctatactca tcagttgtat accctcacia ttatggtttc gttccaagga ctctttgtga 120
agacaatgac ccattggatg tgttggctct gatgcaggag cctgttattc ctgggttcgtt 180
cctgcgagca agagcaatcg gccttatgcc catgattgac cagggtgaaa aggatgacaa 240
gataatagca gtctgtgctg atgatcctga atatcgtcac tacaacgaca tcagtgaagct 300
gtcttctcat cgctgcaag agatcaagcg gttctttgaa gattattaga agaataga 360
tt 362
```

<210> 479
 <211> 410
 <212> DNA
 <213> Zea mays

<400> 479

gacccaatgg atgtgttggg cctgatgcag gagcctgttg ttcttggttc gttcctgaga 60
gctagagcaa ttggccttat gcccatgatt gaccaggggtg aaaaggatga caagataata 120
gcagtatgtg ctgacgatcc tgaataccgt cactacaacg acatcagcga gctgtctcct 180
caccgcctgc aagagatcaa gcgcttcttt gaagattaca agaaaaacga gaacaaagaa 240
gtcgcagttg atgcattctt gcccgcgaca acagctcaag aagccattca gtactccatg 300
gacctgtatg cccagtatat ttgcaaagc ttgaggcagt agattgcaag caacaattta 360
tctatcatgc gtcttgatc ggggcgtgat ttttaataagc cgaatcgctt 410

<210> 480

<211> 373

<212> DNA

<213> Zea mays

<400> 480

gctcctctcc actttccaca ttccagttcc actccgactg cgctgccggg cgccgactcc 60
gaaactccga cagtccgacc acaaggctct gtgcggggtc cacagaagga tgagtgaaga 120
ggataagact gctgcttctg ctgagcagcc gaagagggcc cctaagctca atgaaaggat 180
cctctcttct ctgtccagga ggtccgtagc tgctcatcca tggcatgac ttgagatcgg 240
tcctgatgct cctgctgttt tcaatgttgg tgttgagatc acacagggat gcaaagctta 300
atatgaactt gacaagaaaa ccggactgat taagggtgat cgagtcctgg acttatcagt 360
tgtataccct tac 373

<210> 481

<211> 428

<212> DNA

<213> Zea mays

<400> 481

cccactctcc gaaggactct ttgtgaatac aatgacccaa tggatgtgtt ggtcctgatg 60
catgagcctg ttgttcttgg ttcggttctg agagctagag caattggcct tatgcccatg 120
attgaccagg gtgaaaagga tgacaagata atagcagtat gtgctgacta tcctgaatac 180
cgtcactaca acgacatcag cgagctgtct cctcaccgcc tgcaagagat caagcgcttc 240

tttgaagatt acaagaaaaa cgagaacaaa gaagtcgcag ttgatgcatt cttgcccgcg 300
acaacagctc aagaagccat tcagtactcc atggacctgt atgcccagta tatttttgcaa 360
agcttgaagc agtagattgc aagcaacaat ttatctatca tgcgtcttgg atcggggcgt 420
gatttttaa 428

<210> 482
<211> 384
<212> DNA
<213> Zea mays
<400> 482

aggtcaatac aacgacatca gcgagctgtc tcctcaccgc ctgcaagaga tcaagcgctt 60
ctttgaagat tacaagaaaa acgagaacaa agaagtcgca gttgatgcat tcttgcccgc 120
gacaacagct caagaagcca ttcagtactc catggacctg tatgcccagt atattttgca 180
aagcttgagg cagtagattg caagcaacaa tttatctatc atgcgtcttg gatgggggcg 240
tgattttaat aagccaaatc gcttgctata ttgggaacct tggaattgag aacagcgcca 300
ctagctgtga ttcgctcctt tctcgtaa ttatcatatg aataggccaa gtccatacgt 360
ttaccgtgtg gcgctctgtc agtc 384

<210> 483
<211> 435
<212> DNA
<213> Zea mays
<400> 483

ggtttgcagg cgttgtcttc cggatttttg tccactacac tggtcagcct cttcttgagg 60
ctaaagttgt agcctccatg ctgatgtttg cgacggtcgc tgggattctc atggcactct 120
tcttgaacac tgctggcggc gcctgggata atgcacagaa gtacattgag actggcgctc 180
ttggtggcaa gggcagcgag tcccacaagg ctgcggttac tggcgacacg gttggagacc 240
cattcaaaga cactgctgga ccgtcgctgc atgttcttat caagatgctc gccacaatca 300
cgctggatcat ggctccgata ttcttgtgat taaccaacca ctcatcaagc ttgctattaa 360
ccctgcggag atgtacctat gcgaccaggc agatgagggtg tgtgtgtgtg tgtgttacct 420
gcatgtgatg atgta 435

<210> 484
 <211> 322
 <212> DNA
 <213> Zea mays

<400> 484

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cggacgcgtg cgctcacgtg gttgagtctc ctatttgcag caaggttaag tacgacggcg 60
acagggcatc tggctctgac aaggtggacc gtgttcttta ttcctctggt gtttaccac 120
ataactatgg cttcattcca ctgcacactc tgtgaggata acgacccctt ggatgtcctc 180
atactgatgc aggaacaagt tgtccctgtg tgattcctgc gagctcgtgc tattgggctc 240
atgcctatga tcgatcaggt ctagtgtctt cgtcacctga tcgcatagtg cttgctatgt 300
ttaccttagg ccatatattt tt 322

```

<210> 485
 <211> 441
 <212> DNA
 <213> Zea mays

<220>
 <221> unsure
 <222> (1)..(441)
 <223> unsure at all n locations

<400> 485

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gggacaacgc caagaagtac attgaggctg gagtttcaga gcatgccaaag acccttggcc 60
caaaagggtc tgaccctcac aaggcggctg tcattgggtga caccattgga gatccctcta 120
aggacacgtc tggccctttc ctcaacatcc tcatcaagct tatggcggtt gaatcccttg 180
tcttcgcccn cttcttcngc cgccatggtg gcattctctt caaatggctc taagccagcg 240
agagacgcan gataaaagcc gtagttttgc aaggcgagta gagcagtatg tcagtaatac 300
agcatctatg gcatgtgctt ttgctcgtcc agttcatgag ccccgttgtg tatttggttt 360
ccgttttctt gggtggagtt tttagttcca aagtcgatc atgttttgat ccataaatt 420
ctcttcacgc cttcgagcaa c 441

```

<210> 486
 <211> 468
 <212> DNA

<213> Zea mays
 <400> 486

atcgccgtgt ggcgacga ccccgagtag cgtcactaca acgacatcag cgagctctgc 60
 cctcaccgcc tacaggagat ccgccgcttc ttcgaagact acaagaagaa cgagaacaag 120
 gaggtggccg tcaacgactt cctgcccgcc gccgctgccc gcgaagccat ccagtactgc 180
 atggacctgt acgggcagta catcatgcag accctgcggc ggtagagcgt gtcctaccag 240
 atcccatgcg agctgagctg acgcaagagc acagatcgac agaatccttg tggcttagtc 300
 tcatgcatgg atagccaggt cacatggctt gtcgacgacc atgcatctgt tcttcccagc 360
 gattctagcc tgtatctgcc cttatttata gtctcttggg tttggtggaa tctgtccaca 420
 gtgtggcttg atctatgtac tactcttcta ctttctacc agaacgaa 468

<210> 487
 <211> 481
 <212> DNA
 <213> Zea mays

<400> 487

gcctggcgca gcgtcagttg ccagcacggt ctagcaatcc ggtcggccac gcgtccgagg 60
 aaacgtgggc ggacgcgtgg gcacgcacac tctgtgagga taacgacccc ctgaatgtcc 120
 tcatactgat gcaggaacaa gttgtccctg ggtgtttcct gcaagctcgt gctattgggc 180
 tcatgcctat gatcgatcag ggcgagaaag atgataagat tatagcagtc tgtgctgatg 240
 accctgaatt ccgtcactac acggacatca cggacctccc accgcatcgc cttcaagaga 300
 tccgccgctt ttttgaagat tataaaaaga acgaaaataa ggaggtcgca gtgaatgagt 360
 tcctgccagc gaaagatgcc atcaacgcaa tcaagtactc gatggacctg tatggctcat 420
 acgtcatcga aagcctgagg aagtgatctc cagctgcttg attgtggttg tggatgctac 480
 a 481

<210> 488
 <211> 416
 <212> DNA
 <213> Zea mays

<400> 488

cccacgcgtc cgcacccatg tccaggaggt ctgttgctgc acacccttgg catgatctgg 60
 agataggtcc tgggtgctcca accatattca actgcgtcat tgagatacca aggggcagca 120
 aggttaaata tgaacttgac aagaaaactg gactgatcaa ggtggaccgt gtgctgtatt 180
 catcagttgt ttaccctcac aactatggat tcattcctcg cacgctttgt gaagacagtg 240
 atcctttgga tgtactgggtt ataatgcagg agcctgttat cccaggctgt ttcctacgtg 300
 cgaaggccat cggccttatg ccgatgattg atcagggaga ggcagatgac aagatcattg 360
 cagtgtgcgc tgatgatccc gagtacaggc attacaatga tatcaaggag ctccca 416

<210> 489
 <211> 400
 <212> DNA
 <213> Zea mays

<220>
 <221> unsure
 <222> (1)..(400)
 <223> unsure at all n locations

<400> 489

cccacgcgtc cgtggattca ttccctgcac tctttgtgaa gacagtgate ctttggatgt 60
 actggttata atgcaggagc ctgttatccc aggctgtttc ctacgtgcga aggctatcgg 120
 ccttatgccg atgattgac agggagaggc agatgacaag atcattgcag tgtgcgctga 180
 tgatcccagag tacaggcatt acaatgatat caaggagctc ccacctcacc gcttggctga 240
 aatcaggcgc ttcttcgagg actacaagaa gaatgagaac aaggagggtg ctgtgaacga 300
 ctntctacca gcgagcgccg cttatgaagc catacagcac tctatggatc tgtatgctac 360
 atacatcngt gagggcctga ngaggtaaga ttctgatggc 400

<210> 490
 <211> 457
 <212> DNA
 <213> Zea mays

<220>
 <221> unsure
 <222> (1)..(457)
 <223> unsure at all n locations

<400> 490

acgctttccc cgtcggcgcc tactcagatt taattcggac gccgccgccc ccgctgaccc 60
 aggggggtctt gatggcgccc gctgtagaag ccgttaagga gacaggctcg ttccagaagg 120
 ttcttgcctt gaacgaaagg atactgtcat ccatgtccag gaggtctggt gctgcacacc 180
 cttggcatga tctggagata ggtcctggtg ctccaacat attcaactgc gtcattgaga 240
 taccaagggg cagcaagggt aaatatgaac ttgacaagaa aactggactg atcaagggtg 300
 accgtgtgct gtattcgtca gttgtttacc ctcaacta tggattcatt cctagcactc 360
 tctgtgaaga cagtgatcct ttggatgtac tggttataat gcatgagcct gttatcccat 420
 gctgnttcct acgtgcgaag gctatcgccc ttatgcc 457

<210> 491
 <211> 445
 <212> DNA
 <213> Zea mays

<400> 491

cactgatcaa ctgcaacgca atgacgagac tcatgggtcg acgcaagact ctagagtga 60
 tgctatcagc cttatgcoga tgattgatca gggagaggca gatgacaaga tcattgcagt 120
 gtgcgctgat gatcccgagt acaggcatta caatgatatc aaggagctcc cacctcaccg 180
 cttggctgaa atcaggcgct tcttcgagga ctacaagaag aatgagaaca aggaggttgc 240
 tgtgaatgac tttctaccag cgagcgccgc ttatgaagcc atacagcact ctatggacct 300
 gtatgctaca tacatcgttg agggcctgag gaggtatgat tctgatggct aggaaagggtg 360
 gggaggatgt tgacgaaaaa ctgggagacc atttaccgca tggaacgagt accgttatta 420
 ttttatttgt gtcgtgtata ctgct 445

<210> 492
 <211> 411
 <212> DNA
 <213> Zea mays

<400> 492

acgctttccc cgtcggcgcc tctcagatt taatttggac gccgtcggcg ccgctgaccc 60
 aggtggtctt gatggcgccc gctgtagaag ccgtgaagga gacaggctcg ttccatattg 120
 ttcttgcctt gaacgaaagg atactgtcat ccatgtccag gaggtctgat gctgcacacc 180

cttggcatga tctggagata gcgtcctggt gcttcaacca tattcaactg cgtcattgag 240
 ataccaaggg gcagcaaggt taaatatgaa cttgacaaga aaactggact gatcaaggtg 300
 gaccgtgtgc tgtattcgac agttgtttac cctgacaact atggattcat tcctcgact 360
 ctttgccaag acagtgatcc ttttgatgta ctgggtatta ttcaagaacc t 411

<210> 493
 <211> 423
 <212> DNA
 <213> Zea mays

<400> 493

atcaggcgct tctttagtgc ctccaagaag cgcttgattt cagccaagcg gtgagggtggg 60
 agctccttga tatgattgta atgcctgtac tcgggatcat cagcgcacac tgcaatgatc 120
 ttgtcatctg cctctccctg atcaatcatc ggcataaggc cgatagcctt cgcacgtagg 180
 aaacagcctg ggataacagg ctctgcatt ataaccagta catccaaagg atcactgtct 240
 tcacaaagag tgcgaggaat gagaacaagg aggttgctgt gaacgacttt ctaccagcga 300
 gcgccgctta tgaagccata cagcactcta tggatctgta tgctacatac atcgttgagg 360
 gcctgaggag gtaggattct gatggctagg aaagtgggga ggatgttgac gaaaaactgg 420
 gag 423

<210> 494
 <211> 340
 <212> DNA
 <213> Zea mays

<400> 494

acgcggacgc gtgggcggac gcgtgggcgg acgcgtgggc tttccccgtc ggccgcctccc 60
 cagatttggc cgccgccgcc gctgacctag gttgtcttga tggcgccgc tgtagaagcc 120
 gtgaaggaga caggcacctt ccagaagggt cctgccttga acgaaaggat actgtcatcc 180
 atgtccagga ggtctgttgc tgcacacctt tggcatgac tggagatagg tcctgggtgct 240
 ccaaccatat tcaactgcgt cattgagata ccaaggggca gcaagggtta atatgaactt 300
 gacaagaaaa ctggactgat tcaaggtgga cgtgtgctgt 340

<210> 495

<211> 438
 <212> DNA
 <213> Zea mays

<220>
 <221> unsure
 <222> (1)..(438)
 <223> unsure at all n locations

<400> 495

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cgcggtggacg cgtgccatcc tagggtttct ttccccgtcg gcgcctcncc agatttggcc 120
gccgccgccg ctgaccacagg ttgtcttgat ggcgcccgtc gtagaagccg tgaaggagac 180
aggcaccttc cagaaagttc ctgccttgaa cgaaaggata ctgtcatcca tgtccaggag 240
gtctgttgct gcacaccctt ggcatgatct ggagataggt cctgggtgctc caaccatatt 300
caactgcgtc attgagatac caaggggcag caaggggtata atatgaactt ggaggggaag 360
actggactga ttcaagtgga ccgtgtgctg tattcaacag ttgtttaccc tcacaacaat 420
ggattcattc ctgcacag 438
```

<210> 496
 <211> 419
 <212> DNA
 <213> Zea mays

<400> 496

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ggccatttct ttggatgacc cgaaagcatc tcttgtgaac gacgtggatg atgttgagaa 60
gcattttccg gggacactga ctgccatcag agactggttc agagactaca agatacctga 120
tggaaagcct gccacaacaaat ttggtctcgg caacaagccc gcaagcaagg aatacgccct 180
gaaggtcatt caagagacca acgaatcatg ggagaaattg gtaaagagaa atattcccgc 240
tggagagctc tcgttggcct gatatttgcc catggaagcc accacattct tttgaactgc 300
tttcgtgagc atgtcgtttt gtatgctgtg accatgcttc ttcgtttgca ttccaaacct 360
tttttacgaa ctgtttaaca aaaatgatct tgtcggataa ataatgattc tgggtgcgag 419
```

<210> 497
 <211> 428
 <212> DNA
 <213> Zea mays

<400> 497

cacacgcgtc cggggaggac ccaacttctg caaattctga ggttgaagga gcatttgggg 60

ataatgatcc tgttgatggt gttgagatag gtgaaagacg tgccaatgtc ggggacgttc 120

ttaagggttaa gccattggca gcttttagcaa tgattgatga gggagagctt gactggaaaa 180

ttgtggccat ttctttggat gacccgaaag catctcttgt gaacgacgtg gatgatgttg 240

agaagcattt tccggggaca ctgactgcca tcagagactg gttcagagac tacaagatac 300

ctgatggaaa gcctgccaac aaatttggtc tcggcaacaa gcccgcaagc aaggaatacg 360

ccctgaaggt cattcaagag accaacgaat catgggagaa attggtaaag agaaatattc 420

ccgctgga 428

<210> 498

<211> 313

<212> DNA

<213> Zea mays

<400> 498

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catgcctcca gggaccgacg gtaagggcgg agtacggtga cgcgaccaca accatcgatc 120

ccacctgtgc ccaagccgtc ggcgaggcct tcccgcacac ctttggccag ccgctcgtca 180

tcttcgtcgc gccggccgcc ggcgccggcg ccgttagagg agcgccaccc gatcaggggtg 240

ggcgtggtgt tctctgggag gcagtcgccg ggatggcaca acgtcgtctg gggcctccat 300

gacgcactta aag 313

<210> 499

<211> 256

<212> DNA

<213> Zea mays

<400> 499

cccacgcgtc cggatcagag gaggcacccg tgaccaaga tcgagtagcc aagaagaaga 60

gagatgaacg ccgacttcgg cgcgcccaag gagctcgcgg gaggcctgca gcagcggcgg 120

gccctctacc agccccgcct cccgccatgc ctccaggac cgacggtaag ggcggagtac 180

ggtgacgca ccacaaccat agatcccacc tgtgcccaag ccgtcgcgca ggccttcccg 240

cacacctttg gccagc 256

<210> 500
 <211> 277
 <212> DNA
 <213> Zea mays

<400> 500

cccacgcgtc cggaacagac gtttgaagga gggcacttac aaaggaaaga aagttaatgc 60
 aatctgtcac ttctttggct accaagctag gggagcactg cttccaagt ttgactgcga 120
 ttatgcctat gtcttggggc atgtgtgcta ccacatcata gctgccggtt tgaacggtta 180
 catgggcaca gtgacaaatg ttaagagtc agtgaacaag tggcgatgtg gtgcggctcc 240
 tatttcgtct atgatgactg tgcagcgatg gtcgcgt 277

<210> 501
 <211> 132
 <212> DNA
 <213> Zea mays

<400> 501

cgagacgcgt gggagagcag gtcaatggtg ctatggctag ttgccaagct ttgaagtgg 60
 atgctctggt tatcactgga ggtgtcactt ccaacactga tgctgctcaa cttgccgaga 120
 catttgctga gg 132

<210> 502
 <211> 290
 <212> DNA
 <213> Zea mays

<400> 502

cattgtgaag cctgggtgct ctcaggatgt ccttaaggcg gcgctgagcg ccatgtcttc 60
 tgtgacggag aactgaaca tcatgacctc atcgccacc ggccagactg cactgtgact 120
 cgtttggtgc cgttttgtgg tgccgatcag aatccccact tttccatgg tgtcgattga 180
 caaagttagg agcagtaatc ctgtggtgcc gatcagaatc cccacttttt ccatggtgcc 240
 acacgggtca ttcttttgta gcttcttggg agagttctat cagttttgaa 290

<210> 503
 <211> 290
 <212> DNA
 <213> Zea mays

<400> 503

cattgtgaag cctgggtgct ctcaggatgt ccttaaggcg gcgctgagcg ccatgtcttc 60
 tgtgacggag acactgaaca tcatgacctc atcgccacc gccagactg cactgtgact 120
 cgtttggtgc cgttttgtgg tgcggatcag atccccactt tttccatggt gtcgattgac 180
 aaagttagga gcagtaatcc tgtggtgcgg atcagaatcc ccactttttc catggtgcca 240
 cacgggtcat tcttttgtag cttctcgga gagttctatc agttttgaat 290

<210> 504
 <211> 275
 <212> DNA
 <213> Zea mays

<400> 504

gcgccacccg caccaccaa cgaggcaacg aaaccacgct ggaagctaga ccggcgacaa 60
 gtgcagcgct cgcccgatg gatactgact acggcggtgcc gcgcgagctg tcggaggtgc 120
 agaagaagcg cgcgctctac cagcccgagg tgccccctg catccagggg actactgtca 180
 ggggtggagta tgggtgacgcc gcaattgcag ctgaccaggc aggcgctcat gtgatcagcc 240
 atgcgttccc tcacacctat gggcagcccc ttgca 275

<210> 505
 <211> 255
 <212> DNA
 <213> Zea mays

<400> 505

cagctttctc agattgaaga ccagaagaac tttctacccc agttagttga gactgaaatg 60
 gacagacttt tgaaggaggg cacttacaaa ggaaagaagt ttaatgcaat ctgtcacttc 120
 tttggctacc aagctagggg agcactgcct tccaagtttg actgcgatta tgcctatgtc 180
 ttggggcatg tgtgctacca catcatagct gccggtttga acggttacat ggccacagtg 240
 acaaatgtta agagt 255

<210> 506
 <211> 421
 <212> DNA
 <213> Zea mays

<400> 506

ctttttgttg gaagatgtct acaggaaccc aagcccgggt cagtttgaag ggccaagtgc 60
 ccattcaaag cctatgtgag ttgtccttga aggttcagaa ctttttggcc ggattaaaaa 120
 agttcaggat tccttggaag aggtgaaaag gattgtgaac cctgggtgct cgcaggatgt 180
 tcttaaagcg gcgctgagtg ccatgtcttc tgtgacggaa aactgaaca tcatgacttc 240
 atcttctacc ggccagactc cactgagtca ttaggtacca tttcatggta tggatcataa 300
 tccccacttt tttcagtggg ggcgattaac gagtttagga acagcaaccc tggatcata 360
 cgggttattc tttttgtagc cttttggaga gttctatcgg ttttggattc ggtagtttat 420
 g 421

<210> 507
 <211> 363
 <212> DNA
 <213> Zea mays

<400> 507

gcattgtgaa gcccgggtgc tcgcaggatg tccttaaagc agcggtaagc gccatggctt 60
 ctgtgacgga gatgttgacc atcatgtctt ccctttcatt tagtggacag gcgaccatct 120
 gaaggccaag ctgaagatgt catatgctgt tgcgctgtca tgtcccgaac atatttgtgt 180
 ttttttggga aagaaacata caattttttg ttctcattct agtatcgtct acctatgtca 240
 aactacaata tgataggacc cttgcgaaat aattgtttcg tttgctggta tttctcatct 300
 ttgatgctaa aaaaaaagga catattgtgt aagaaagttc aagggtgcac atcacaccaa 360
 tat 363

<210> 508
 <211> 171
 <212> DNA
 <213> Zea mays

<400> 508

cccacgcgtc cgcgcatgtg gaacctctcc tctggttggg ggcaattcat ggcgggtcacg 60

acgagagctt acagatccga atgggcccgt gtactacaac ggcattgtacc acctgttcta 120
ccagtacaac ccgcacgggg cgctctggga cgtgggcaac ctctcatggg g 171

<210> 509
<211> 142
<212> DNA
<213> Zea mays

<220>
<221> unsure
<222> (1)..(142)
<223> unsure at all n locations

<400> 509

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ctggatcggc ccggacggnt tgtggangat agccgtcggg gccgaggtcg acggccacag 120
cncggngctt ctgtacgana gc 142

<210> 510
<211> 288
<212> DNA
<213> Zea mays

<400> 510

gctcctccat ggccatggcc atggcccga cttgtgcttt cttctcttcc ttcctagttc 60
ttttctccta cgacggatcc ggtcctgca gcagcaggag gactaggagg agtggcgtcg 120
cgcaggccac gcagagagtc ttctgtatc cacaggctcc caaggtctcc tccatcgtga 180
gcagcaagta caggaccgag taccattcc agcctcccaa gaactggatc aacgatccaa 240
atggaccaat gtactacaat ggtatctacc accagttcta ccagtaca 288

<210> 511
<211> 241
<212> DNA
<213> Zea mays

<400> 511

aaagaatcaa gctgcagggt ctgaacgtga caccaaagat tcttgtgctg actaggctga 60
taccagatgc caagggtaca aaatgcaatg tggagctcga gccagttgaa aatacaaaac 120

attcccacat acttcgtgtg ccattcaaga ctgaaaacgg caaggagttg cgccagtggg 180
 tgtcccgggtt tgacatctac ccttacctag agagatatgc ccaggattct tgtgccaaaa 240
 t 241

<210> 512
 <211> 185
 <212> DNA
 <213> Zea mays

<220>
 <221> unsure
 <222> (1)..(185)
 <223> unsure at all n locations

<400> 512

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 cagtncgcgc gtacgtcttn gngccacctn ctctctcat cccaatgaac tgatagcact 120
 ctagtccagg tatgtccacc atggcaattg aatgcgtcag cgccatcagc tgctttcgga 180
 gtatg 185

<210> 513
 <211> 285
 <212> DNA
 <213> Zea mays

<400> 513

ggaagagatc gcggagatag agaagatgca tgaactcatc aagaccacaca acttgttcgg 60
 gcagttccgc tggatctctg ccagacaaa cagggcccggt aacggcgagc tctatcgcta 120
 catcgtgat acccatggtg ctttcgtaca gccggccttc tatgaagcgt tcggtctcac 180
 cgtcgttgaa gccatgacct gtggacttcc tacttttcgcg acgctccatg gagggccagc 240
 tgagatcata gagcatggcg tctcgggctt ccacattgac ccgta 285

<210> 514
 <211> 112
 <212> DNA
 <213> Zea mays

<400> 514

gtccatttga tttgcgttca ctgcgttgcg tttccttggg ggggattgtt ctctcctctc 60

catgggattg gaggtccctc cttcttctcc tctctctctc agatgaacgc ct 112

<210> 515
 <211> 135
 <212> DNA
 <213> Zea mays

<400> 515

gctccagggg agacaatgtt gaacttgga tcgaaaaccg acaagagact cactgctcat 60

ccagatcgag agtcatctaa ggacgtcaga ctcgcacact cggctagaca gaaagcgtca 120

ctccgagggg ccacg 135

<210> 516
 <211> 297
 <212> DNA
 <213> Zea mays

<400> 516

ataagaaatg gatatacaaga tttgatgtgt ggccatatct ggaaacattt gctgaggatg 60

ctgctggtga aattgctgct gaattacaag gtactccaga cttcataatt ggaaactaca 120

gtgatggaaa tcttgtggca tcgttgctat cttacaagat ggggaattacc cagtgaaca 180

ttgctcatgc tctggaaaag actaagtatc cagattcaga catattttgg aagaatttcg 240

atgagaagta ccatttctcc ttcagttcac ggctgatata attgctatga acaatgc 297

<210> 517
 <211> 202
 <212> DNA
 <213> Zea mays

<400> 517

tagcactcgt ttccaggtat gttcaccagg gcaagggat gcttcatcgc catcagctgc 60

ttgcggagtt tgatgcctg tttggatagt gacaaggaga agtatgcacc ctttgaagac 120

attcttcgtg ctgctcagga agcaattgtg cccccccat gggttgcact tgctatgggg 180

ccaagtccgg ttgtctggga tt 202

<210> 518
 <211> 346

<212> DNA
 <213> Zea mays
 <400> 518
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 gatagatcgt ctatatactg gaccaagttc gtgcactagt aaatgggata gctctacgtt 120
 tacagccaca agggcttgat gtttcccaa agattcacat tgctagtcgg ctgatcatag 180
 atggagtagg tagatcatgc aatcagcggg ttgagagagt tagtggcaca cagcatactt 240
 acatattacg agttcacttc tgagatgaaa atgggatact tatgaagtgg atatcaagat 300
 tatgatgaga ggcgatatct ggagacattt gctgaggatg ctgctg 346

<210> 519
 <211> 62
 <212> DNA
 <213> Zea mays
 <400> 519
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 ca 62

<210> 520
 <211> 250
 <212> DNA
 <213> Zea mays
 <400> 520
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 ccttgcttcc cgcgatttct tggaatgtgc tggatgatgat gaaatcgggtg tggttcatgg 120
 caataagggtc agctgtgaac tggcaagaga agtgggtactg gctgtacgag tcccacatcg 180
 cgttcactct tcctgggctc taccgtgtcg tccatggcat cgatgttttc gatcccaagt 240
 tcaacattgt 250

<210> 521
 <211> 142
 <212> DNA
 <213> Zea mays
 <400> 521

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agagtttgta ccccttgctg aacttctca aggtcataa ctacaagggc acgacgatga 120
tgttgaatga cagaatccaa ag 142

<210> 522
<211> 264
<212> DNA
<213> Zea mays

<400> 522

actttcgcga cgctccatgg agggccagct gagatcatag agcatggcgt ctcgggcttc 60
cacattgacc cgtaccaccc cgagcaggct gctaattctga tggccgactt cttcgagcgg 120
tgcaagcaag acccagatca ctgggtgaaa atatctggag cagggctgca gcgcatatac 180
gagaagtaca catggaagat ctactcagag aggttgatga cactggccgg ggtctacgg 240
ttctggaagt acgtgtcgaa gctc 264

<210> 523
<211> 310
<212> DNA
<213> Zea mays

<220>
<221> unsure
<222> (1)..(310)
<223> unsure at all n locations

<400> 523

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cattgctcat gctctggaaa agactanata tccagattca gacatatttt ggaagaactt 120
cgatgagaag taccatttct cctgtcagtt cactgctgat ataattgcta tgaacaatgc 180
tgattttatc atcaccagca cataccaaga aattgctgga agcaaaaata ctgttgga 240
gtatgagagt catactgctt ttactctgcc tggctgttac cgagttgtcc atgggatcga 300
tgtcttcgat 310

<210> 524
<211> 181
<212> DNA

<213> Zea mays

<400> 524

atgaacaatg ctgattttat catcaccagc acataccaag aaattgctgg aagcaaaaat 60
actgttggac agtatgagag tcatactgct tttactctgc ctgggtctgta ccgagttgtc 120
catgggatcg atgtcttcga tccaaagttc aatatagtct ctctggagc tgacatgtcc 180
a 181

<210> 525

<211> 148

<212> DNA

<213> Zea mays

<400> 525

cacataccaa gaaattgctg gaagcaaaaa tactgttggc cagtatgaga gtcatactgc 60
ctttactctg cctgggtctgt accgagttgt ccatgggatt gatgtcttcg atccaaagtt 120
caatatagtc tctctggag ctgacatg 148

<210> 526

<211> 283

<212> DNA

<213> Zea mays

<400> 526

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ataccgagaa ggccaagcga ctcacctctc ttcatgggtc aatcgaaaat ttgatttatg 120
accgggagca aaacgatgaa cacattgggc atctggatga ccggtcaaag cccatcctct 180
tctccatggc aagactcgac aggggtgaaga acataacggg gctggtcgaa gcttttgcca 240
agtgcgctaa gctgaggag ctggtaaacc ttgtcgtcgt tgc 283

<210> 527

<211> 150

<212> DNA

<213> Zea mays

<400> 527

accgagttgt ccatgggatc gatgtcttcg atccaaagtt caatatagtc tctctggag 60

ctgacatgtc catatacttt ccacataccg agaaggccaa gcgactcacc tctcttcatg 120
gttcaatcga aaatttgatt tatgaccggg 150

<210> 528
<211> 255
<212> DNA
<213> Zea mays

<400> 528

gttcctcaac cgacacttgt cctcaatcat gttccgcaac agggattgct tggacgccct 60
gctggatttc ctccgtggcc accggcaciaa ggggcatgtt atgatgctta tgatagaata 120
caaagcttgg ggaggcttca gtctgtgctg accaaagctg aggagcactt gtcaaagctc 180
cctgctgaca caccatactc acaatttgct tataaatttc aagagtgggg cctggagaaa 240
ggtgggggtga tacag 255

<210> 529
<211> 137
<212> DNA
<213> Zea mays

<400> 529

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gcatgttatg atgcttaatg atagaatata aaacttgggg aggcttcagt ctgtgctgac 120
caaagctgag gagcact 137

<210> 530
<211> 293
<212> DNA
<213> Zea mays

<400> 530

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tgtcatcccc cacatgggtt gcaattgcca tccgccctag gcctgggtgc tgggagtatg 120
tgagggtcaa cgtcagtgag ctcgctgttg aggagctgag agttcctgag tacctgcagt 180
tcaaggaaca gcttgtggaa gaaggcccca acaacaactt tgttcttgag ctggactttg 240
agccattcaa tgctccttc ccccgctcct ctctgtcaaa gtccattggc aat 293

<210> 531
 <211> 308
 <212> DNA
 <213> Zea mays

 <400> 531

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 gttgcacttg ccatccgccc taggcctggg gtccgggagt atgtgaaggt caacgtcagt 120
 gggctcgctg ttgaggagct gagagttcct gagtacctgc agttcaagga acagcttgtg 180
 gaagaaggcc ccaacaacaa ctttgttctt gagctggact ttgagccatt caatgcctcc 240
 ttcccccgtc cttctctgtc aaagtccatt ggcaatggcg tgcagttcct caacaggcac 300
 ctgtcatc 308

<210> 532
 <211> 170
 <212> DNA
 <213> Zea mays

 <400> 532

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 cccatcgatg tgtttttggt cggttctctc gtcagatctg tataaatagg cgcctccctt 120
 ctccgccatt cctcggtcct ctgaagcgtt tcagttcatc gattcagttc 170

<210> 533
 <211> 303
 <212> DNA
 <213> Zea mays

 <400> 533

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 tgccgggtac aatgatgtca acaagtccaa ggacagggaa gagatcgcg agatagagaa 120
 gatgcatgaa ctcatcaaga cccacaactt gtccgggcag ttccgctgga tctctgcccc 180
 gacaaacagg gcccgtaacg gcgagctcta tcgctacatc gctgataccc atgggtgcttt 240
 cgtacagccg gccttctatg aagcgttcgg tctcacgcgc gttgaggcca tgacctgtgg 300
 act 303

<210> 534
 <211> 365
 <212> DNA
 <213> Zea mays

<400> 534

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 ccaaaccgag aacacggagc acaagttcgt tctgaacgac aggaacaagc caatcatctt 120
 ctccatggct cgtctcgacc gtgtgaagaa cttgactggg ctggtggagc tgtacggccg 180
 gaacaagcgg ctgcaggagc tgggtgaacct cgtggtcgtc tgcggcgacc atggcaaccc 240
 ttccaaggac aaggaggagc aggccgagtt caagaagatg tttgacctca tcgagcagta 300
 caacctgaac gggcacatcc gctggatctc cgcccagatg aaccgcgtcc gcaacggcga 360
 gctgt 365

<210> 535
 <211> 330
 <212> DNA
 <213> Zea mays

<400> 535

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 tgcgcttgag aaaactaagt accctaactc cgacctctac tggaagaagt ttgaggatca 120
 ctaccacttc tcgtgccagt tcaccactga cttgattgca atgaaccatg ccgacttcat 180
 catcaccagt accttccaag agatcgccgg aaacaaggac accgtcggcc agtacgagtc 240
 acacatggcg ttcacaatgc ctggcctgta ccgcgttgtc cacggcattg atgtgttcga 300
 ctccaagttc aacatcgtgt ctcttggcgc 330

<210> 536
 <211> 332
 <212> DNA
 <213> Zea mays

<400> 536

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 gctggagaag gtcattggta ctgagcacac agacatcatt cgcgttcctc tcagaaatga 120

gaatggcatc ctccgcaagt ggatctctcg ttttgatgtc tggccatacc tggagacata 180
 cactgaggat gtttccagtg aaataatgaa agaaatgcag gccaaagcctg accttatcat 240
 tggcaactac agcgatggca acctagtgcg cactctgctc gcgcacaagt tgggagtcac 300
 tcagtgtacc atcgctcatg ccttgagaaa aa 332

<210> 537
 <211> 340
 <212> DNA
 <213> Zea mays

<400> 537

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 tgcccacgtt cgccaccgcc tacggcgctc ggccgagatc atcgtgcacg gcgtgtctgg 120
 ctaccacatc gacccttacc agggcgacaa ggcgtcggcc ctgctcgtgg acttcttcga 180
 caagtgccag gcggagcgat gccactggag caagatctcc cagggcgggc tccagcgtat 240
 cgaggagaag tacacctgga agctgtactc ggagaggctg atgacctca ccggcgtgta 300
 cgggttctgg aagtacgtgt ccaacctgga gaggcgcgag 340

<210> 538
 <211> 322
 <212> DNA
 <213> Zea mays

<400> 538

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 acaagccaat catcttctcc atggctcgtc tcgaccgtgt gaagaacttg actgggctgg 120
 tggagctgta cggccggaac aagcggctgc aggagctggt gaacctcgtg gtcgtctgcg 180
 gcgaccatgg caacccttcc aaggacaagg aggagcaggc cgagttcaag aagatgtttg 240
 acctcatcga gcagtacaac ctgaacgggc acatccgctg gatctccgcc cagatgaacc 300
 gcgtccgcaa cggcgagctg ta 322

<210> 539
 <211> 337
 <212> DNA
 <213> Zea mays

<400> 539

cggaccgtgg ccttcgcgtg ccattcagaa cagaaaacgg aatcgttcgc aagtggatgt 60

cgcgatttga agtctggccg tacctggaga cttacactga tgacgtggcg catgagattg 120

ctggagagct tcaggccaat cctgacctga tcatcggaaa ctacagtgc ggaaaccttg 180

ttgcgtgttt gctcgccac aagatgggtg ttactcactg taccattgcc catgcgcttg 240

agaaaactaa gtaccctaac tccgacctct actggaagaa gtttgaggat cactaccact 300

tctcgtgcc a gttcaccact gacttgattg caatgaa 337

<210> 540

<211> 320

<212> DNA

<213> Zea mays

<400> 540

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cgcgctatgg agaacgaaat gctgctgagg atcaagcagt gtggtcttga catcacgccg 120

aagatcctta ttgtcaccag gttgctcct gatgcaactg gcaccacctg tggccagcgc 180

cttgagaagg tccttggcac cgagcactgc catatccttc gctgcccatt cagaacagaa 240

aacggaatcg ttcgcaagtg gatctcgca tttgaagtct ggccgtacct ggagacttac 300

actgatgacg tggcgcatga 320

<210> 541

<211> 315

<212> DNA

<213> Zea mays

<400> 541

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gtccacccta caagctgata cccatactc tgaatttcac cacaggttcc aggaacttgg 120

tctggagaag ggttggggtg attgcgctaa gcgtgcacag gagactatcc acctcctctt 180

ggacctcctg gaggccccag atccgtccac cctggagaag ttccttggaa cgatcccat 240

ggtgttcaat gtcgttatcc tctccctca tggttacttc gctcaagcta atgtcttggg 300

ttaccctgac accgg 315

<210> 542
 <211> 327
 <212> DNA
 <213> Zea mays

<400> 542

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cgtgcgggtct gccaacgacg gcgacctgcc atggtggccc tgctgagacg atcgtggacg 120
gggtatcttg cctgcacatt gacccttacc acagcgacaa ggccgcggat atcctgggtca 180
acttctttga caaatgcaag gcagatccga gctactggga caagatctca cagggcggcc 240
tgagagaaat ctatgagaag tacacctgga agctctactc cgagaggctg atgaccctga 300
ccggcgtgta cgggttcttg aagtacg 327
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<210> 543
 <211> 318
 <212> DNA
 <213> Zea mays

<400> 543

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gaatcgttcg caagtggacg tcgcgatttg aagtctggcc gtacctggag acttacactg 60
atgacgtggc gcatgagatt gctggagagc ttcaggccaa tcctgacctg atcattggaa 120
actacagtga cggaaacctt gttgcgtgtt tgctcgccca caagatgggt gttactcact 180
gtaccattgc ccatgcgctt gagaaaacta agtaccctaa ctccgacctc tactggaaga 240
agtttgagga tcaactaccac ttctcgtgcc agttcaccac tgacttgatt gcaatgaacc 300
atgccgactt catcatca 318
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<210> 544
 <211> 317
 <212> DNA
 <213> Zea mays

<400> 544

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cttcatcatc accagtacct tccaagagat cgccggaaac aacgacaccg tcggccagta 60
cgagtcacac atggcggttca caatgcctgg cctgtaccgc gttgtccacg gcattgatgt 120
gttcgacccc aagttcaaca tcgtgtctcc tggcgcggac ctgtccatct acttcccgtg 180
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caccgagtcg cacaagaggc tgacctccct tcacccggag attgaggagc tcctgtatag 240
 cccaaccgag aacacggagc acaagttcgt tctgaacgac aggaacaagc caatcatctt 300
 ctccatggct cgtctcg 317

<210> 545
 <211> 322
 <212> DNA
 <213> Zea mays

<400> 545

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 gcgggaagca aggacaccgt ggggcagtac gagtcccaca ttgcgttcac tcttcctggg 120
 ctctaccgtg tcgtccatgg catcgatgtt ttcgatccca agttcaacat tgtctccctt 180
 ggagcagaca tgagtgttta ctaccggtat acggaaaccg acaagagact cactgccttc 240
 catcctgaaa tcgaggagct catctacagc gacgtcgaga actccgagca caagttcgtg 300
 ctgaaggaca agaagaagcc ga 322

<210> 546
 <211> 318
 <212> DNA
 <213> Zea mays

<400> 546

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 gggtgtctac atcttggatc aagtgcgcgc tatggagaac gaaatgctgc tgaggatcaa 120
 gcagtgtggc cttgacatca cgccgaagat ccttattgtc accaggttgc tccctgatgc 180
 aactggcacc acctgtggcc agcgccttga gaaggtcctt ggcaccgagc actgccatat 240
 ccttcgcgtg ccattcagaa cagaaaacgg aatcgttcgc aagtggatct cgcgatttga 300
 agtctggccg tacctgga 318

<210> 547
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 <212> DNA
 <213> Zea mays

<400> 547

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 caaaccgaga acacggagca caagttcgtt ctgaacgaca ggaacaagcc aatcatcttc 120
 tccatggctc gtctcgaccg tgtgaagaac ttgactgggc tggaggagct gtacggccgg 180
 aacaagcggc tgcaggagct ggtgaacctc gtggctcgtct gcggcgacca tggcaaccct 240
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 aacctgaacg ggcacatc 318

<210> 548
 <211> 326
 <212> DNA
 <213> Zea mays

<400> 548

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 tctggatcaa gtccgtgctt tggagaatga gatgcttctg aggattaagc agcaaggcct 180
 tgatatcact ccgaagatcc tcattgttac caggctgttg cctgatgctg ctgggactac 240
 gtgcggtcag cggctggaga aggtcattgg tactgagcac acagacatca ttcgcgttcc 300
 gttcagaaat gagaatggca tcctcc 326

<210> 549
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 <212> DNA
 <213> Zea mays

<400> 549

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 cggagattga ggagctcctg tacagccaaa ccgagaacac ggagcacaag ttcgttctga 180
 acgacaggaa caagccaatc atcttctcca tggctcgtct cgaccgtgtg aagaacttga 240
 ctgggctggt ggagctgtac ggccggaaca agcggctgca ggagctggtg aacctcgtgg 300
 tcgtctgcgg cgaccatggc 320

<210> 550

<211> 330
 <212> DNA
 <213> Zea mays
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 tcgcgcacaa gttgggagtc actcagtgtg ccatcgctca tgccttggag aaaaccaaata 180
 accccaactc ggacatatatac ttggacaaat tcgacagcca gtaccacttc tcttgccagt 240
 tcacagctga ccttattgcc atgaaccaca ctgatttcat catcaccagc acattccaag 300
 aaatcgcgagg aagcaaggac accgtggggc 330

<210> 551
 <211> 318
 <212> DNA
 <213> Zea mays
 <400> 551
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 cggcaagaac gcgcgctga gggagctggc gaacctcgtg atcgttgccg gtgaccacgg 180
 caaggagtcc aaggacaggg aggagcaggc ggagttcaag aagatgtaca gcctcatcga 240
 cgagtacaag ttgaagggcc atatccggtg gatctcggcg cagatgaacc gcgtccgcaa 300
 cggggagctg taccgcta 318

<210> 552
 <211> 311
 <212> DNA
 <213> Zea mays
 <400> 552
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 caagagatcg ccggaacaaa ggacaccgtc ggccagtacg agtcacacat ggcgttcaca 180
 atgcctggcc tgtaccgctg tgtccacggc attgatgtgt tcgaccccaa gttcaacatc 240

gtgtctcctg ggcggacct gtccatctac ttcccgtaga ccgagtcgca caagaggctg 300
acctcccttc a 311

<210> 553
<211> 320
<212> DNA
<213> Zea mays

<400> 553

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ccgcagtctc agtgcctctgc aaggtgcgct gaggaaggct gaggagcacc tgtccacct 180
acaagctgat accccatact ctgaatttca ccacaggctc caggaacttg gtctggagaa 240
gggttggggg gattgcgcta agcgtgcaca ggagactatc cacctcctct tggacctcct 300
ggaggcccca gatccgtcca 320

<210> 554
<211> 311
<212> DNA
<213> Zea mays

<400> 554

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gtctgcggcg accatggcaa cccttccaag gacaaggagg agcaggccga gttcaagaag 180
atgtttgacc tcatcgagca gtacaacctg aacgggcaca tccgctggat ctccgcccag 240
atgaaccgag tccgcaacgg cgagctgtac cgctacatct gcgacaccaa gggcgcttc 300
gtgcagcctg c 311

<210> 555
<211> 363
<212> DNA
<213> Zea mays

<400> 555

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cgtgtacggg ttctggaagt acgtgtccaa cctggagagg cgcgagaccc ggcggtacct 240
ggagatgctg tacgcgctca agtaccgcac catggcgagc accgtgccgc tggccgtgga 300
gggagagcct ccagcaagtg atgcgtgacg gcggccacag acctgatcga tcgatgagcg 360
aga 363

<210> 556
<211> 317
<212> DNA
<213> Zea mays

<400> 556

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tcacgcgaaa ctacagtgac ggaaaccttg ttgcgtgttt gctcgccac aagatgggtg 180
ttactcactg taccattgcc catgcgcttg aggaaactaa gtaccctaac tccgacctct 240
actggaagaa gtttgaggat cactaccact tctcgtgcca gttcaccact gacttgattg 300
ccatgaacca tgccgac 317

<210> 557
<211> 310
<212> DNA
<213> Zea mays

<400> 557

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agaacttgac tgggctggtg gagctgtacg gccggaacaa gcggctgcag gagctggtga 180
acctcgtggt cgtctgcggc gaccatggca acccttccaa ggacaaggag gagcaggccg 240
agttcaagaa gatgtttgac ctcatcgagc agtacaacct gaacgggcac atccgctgga 300
tctccgccca 310

<210> 558

<211> 311
 <212> DNA
 <213> Zea mays
 <400> 558
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 cccatgggtgt tcaatgtcgt taccctctcc cctcatgggt acttcgctca agctaattgc 180
 ttgggttacc ctgacaccgg aggccagggt gtctacatct tggatcaagt gcgcgctatg 240
 gagaacgaaa tgctgctgag gatcaagcag tgtgggtcttg acatcacgcc gaagatcctt 300
 attgtcacca g 311

<210> 559
 <211> 317
 <212> DNA
 <213> Zea mays
 <400> 559
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 gagaacgaaa tgctgctgaa ggatcaaagc agtgtgggtc ttaacatcac gccgaagata 120
 cttattgtca ccaggttget ccctgatgca actggcacca cctgtggcca gcgccttgag 180
 aaggtccttg gcaccgagca ctgccatata cttcgcgctg cattcagaac agaaaacgga 240
 atcgttcgca agtggatctc gcgatttgac atctggccgt acctggagac ttacactgat 300
 gacgtggcgc atgagat 317

<210> 560
 <211> 307
 <212> DNA
 <213> Zea mays
 <400> 560
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 tgggctggtg gagctgtacg gccggaacaa gcggctgcag gagctggtga acctcgtggt 180
 cgtctgcggc gaccatggca acccttccaa ggacaaggag gagcaggccg agttcaagaa 240

gatgtttgac ctcacgagc agtacaacct gaacgggcac atccgctgga tctccgcca 300
 gatgaac 307

<210> 561
 <211> 307
 <212> DNA
 <213> Zea mays

<400> 561

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 ccagtacgag tcacacatgg cgttcacaat gcctggcctg taccgcgttg tccacggcat 180
 tgatgtgttc gaccccaagt tcaacatcgt gtctcctggc gcggacctgt ccatctactt 240
 cccgtacacc gagtcgcaca agaggctgac ctcccttcac ccggagattg aggagctcct 300
 gtacagc 307

<210> 562
 <211> 314
 <212> DNA
 <213> Zea mays

<400> 562

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 gaagcaagga caccgtgggg cagtacgagt cccacatcgc gttcactctt cctgggctct 180
 accgtgtcgt ccatggcatc gatgttttcg atoccaaagt caacattgtc tcccctggag 240
 cagacatgag tgtttactac ccgtatacgg aaaccgacaa gagactcact gccttccatc 300
 ctgaaatcga ggag 314

<210> 563
 <211> 305
 <212> DNA
 <213> Zea mays

<400> 563

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 aagtggatct ctcgttttga tgtctggcca tacctggaga catacactga ggatgtttcc 240
 agtgaaataa tgaaagacat gcaggccaag cctgacctta tcattggcaa ctacagcgat 300
 ggcaa 305

<210> 564
 <211> 316
 <212> DNA
 <213> Zea mays

<400> 564

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 tcggccctgc tcgtggactt cttcgacaag tgccaggcgg acccgagcca ctggagcaag 180
 atctcccagg gcgggctcca gcgtatcgag gagaagtaca cctggaagct ctactcggag 240
 aggctgatga ccctcaccgg cgtgtacggg ttctggaagt acgtgtccaa cctggagagg 300
 cgcgagaccc ggcggg 316

<210> 565
 <211> 306
 <212> DNA
 <213> Zea mays

<400> 565

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 gccagtacga gtcacacatg gcgttcacaa tgccctggcct gtaccgcgtt gtccacggca 120
 ttgatgtggt cgaccccaag ttcaacatcg tgtctcctgg cgcggaacctg tccatctact 180
 tcccgtacac cgagtcgcac aagaggctga cctcccttca cccggagatt gaggagctcc 240
 tgtacagcca aaccgagaac acggagccca agttcgttct gaacgacagg aacaagccaa 300
 tcatct 306

<210> 566
 <211> 310
 <212> DNA

<213> Zea mays

<400> 566

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cagcgacaag gccgcggata tcctgggtcaa cttctttgac aaatgcaagg cagatccgag 180
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gctctactcc gagaggctga tgacctgac cggcgtgtac gggttctgga agtacgtgag 300
caacctggag 310

<210> 567

<211> 320

<212> DNA

<213> Zea mays

<400> 567

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gcatgagatt gctggagagc ttcaggccaa tcctgacctg atcatcgga actacagtga 120
cggaaacctt gttgcgtggt tgctcgccca caagatgggt gttactcact gtaccattgc 180
ccatgcgctt gagaaaacta agtaccctaa ctccgacctc tactggaaga agtttgagga 240
tcactaccac ttctcgtgcc agttcaccac tgacttgatt gcaatgaacc atgccgactt 300
catcatcacc agtaccttcc 320

<210> 568

<211> 311

<212> DNA

<213> Zea mays

<400> 568

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ctggatctcc gccagatga accgcgtccg caacggcgag ctgtaccgct acatctgcga 120
caccaagggc gccttcgtgc agcctgcttt ctacgaggct ttcgggctga cgggtggtga 180
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gtgcacggcg tgtctggcta ccacatcgac ccttaccagg gcgacaaggc gtcggccctg 300

ctcgtggact t

311

<210> 569
<211> 313
<212> DNA
<213> Zea mays

<220>
<221> unsure
<222> (1)..(313)
<223> unsure at all n locations

<400> 569

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gagctggact ttgagccatt caatgcctcc ttcccccgctc cttctctgtc aaagtccatt 180
ggcaatggcg tgcagttcct caacaggcac ctgtcatcaa agctcttcca tgacaaggag 240
agcatgtacc ccttgctcaa cttccttcgc gccacaaact acaaggggat gaccatgatg 300
ttgaacgaca gaa 313

<210> 570
<211> 309
<212> DNA
<213> Zea mays

<400> 570

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gccatgacct gcggcctgcc cacgttcgcc accgcctacg gcgtccggcc gagatcatcg 120
tgcacggcgt gtctggctac cacatcgacc cttaccaggg cgacaaggcg tcggccctgc 180
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cgggctccag cgtatcgagg agaagtacac ctggaagctg tactcggaga ggctgatgac 300
cctcaccgg 309

<210> 571
<211> 305
<212> DNA
<213> Zea mays

<400> 571

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tccccatgggt gttcaatgtc gttatcctct cccctcatgg ttacttcgct caagctaata 180
tcttgggtta cctgacacc ggaggccagg ttgtctacat cttggatcaa gtgcgcgcta 240
tggagaacga aatgctgctg aggatcaagc agtgtgggtct tgacatcacg ccgaagatcc 300
ttatt 305

<210> 572
<211> 305
<212> DNA
<213> Zea mays

<400> 572

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tcagtgtacc atcgctcatg ccttggagaa aaccaaatac cccaactcgg acatatactt 180
ggacaaattc gacagccagt accacttctc ttgccagttc acagctgacc ttattgccat 240
gaaccacacc gatttcatca tcaccagcac attccaagaa atcgcgggaa gcaaggacac 300
cgtgg 305

<210> 573
<211> 306
<212> DNA
<213> Zea mays

<400> 573

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gtccacggca ttgatgtgtt cgacccaag ttcaacatcg tgtctcctgg cgcggacctg 120
tccatctact tcccgtacac cgagtcgcac aagaggctga cctcccttca cccggagatt 180
gaggagctcc tgtacagcca aaccgagaac acggagcaca agttcgttct gaacgacagg 240
aacaagccaa tcattctctc catggctcgt ctcgaccgtg tgaagaactt gactgggttg 300
gtggag 306

<210> 574
 <211> 332
 <212> DNA
 <213> Zea mays

<400> 574

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 ggcgagcacc gtgccgctgg ccgtggagg agagccctcc agcaagtgat gcgtgacggc 180
 ggccacagac ctgatcgatc gatgagcgag agggagcact cggagtgtcg tgtcttttcc 240
 cttgccattt ctttctttct tctttttcct tcccggaggc gaaaaaaaaa gagtctgcat 300
 ttgctaggcg gcgggcgttc gttgctgctc tt 332

<210> 575
 <211> 309
 <212> DNA
 <213> Zea mays

<400> 575

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 cctgtggcca gcgacttgag aaggctcctt gcaccgagca ctgccatata cttcgcgtgc 240
 cattcagaac agaaaacgga atcgttcgca agtggatctc gcgatttgaa gtctggccgt 300
 acctggaga 309

<210> 576
 <211> 306
 <212> DNA
 <213> Zea mays

<400> 576

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 acgtttgcca cagcctacgg cggtcgggcc gagatcatcg tgcacggcgt gtctggctac 180
 cacatcgacc cttaccaggg cgacaaggcg tcggccctgc tcgtggactt cttcgacaag 240

tgccaggcgg acccgagcca ctggagcaag atctcccagg gcgggctcca gcgtatcgag 300
gagaag 306

<210> 577
<211> 300
<212> DNA
<213> Zea mays

<400> 577

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aggagctggt gaacctcgtg gtcgtctgcg gcgaccatgg caacccttcc aaggacaagg 180
aggagcaggc cgagttcaag aagatgtttg acctcatcga gcagtacaac ctgaacgggc 240
acatccgctg gatctccgcc cagatgaacc gcgtccgcaa cggcgagctg taccgctaca 300

<210> 578
<211> 322
<212> DNA
<213> Zea mays

<400> 578

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actgtaccat tgcccatgcg cttgagaaaa ctaagtaccc taactccgac ctctactgga 120
agaagtttga ggatcactac cacttctcgt gccagttcac cactgacttg attgcaatga 180
accatgccga cttcatcacc accagtacct tccaagagat cgccggaaac aaggacaccg 240
tcggccagta cgagtcacac atggcggttca caatgcctgg cctgtaccgc gttgtccacg 300
gcattgatgt gttecgacccc aa 322

<210> 579
<211> 336
<212> DNA
<213> Zea mays

<400> 579

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gcgatttgaa gtctggccgt acctggagac ttacactgat gacgtggcgc atgagattgc 180
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 aacactaagt acgctaactc cgacctctac tggaag 336

<210> 580
 <211> 303
 <212> DNA
 <213> Zea mays
 <400> 580

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 cgaaatgttc tacgccctga agtaccgtag cctggcaagc caggttccgc tgccttcga 180
 ttagtacggg gaaagaagaa gcccaggccg gagaaccatc gcctgcattt cgatctgttt 240
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 ttg 303

<210> 581
 <211> 304
 <212> DNA
 <213> Zea mays
 <400> 581

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 taccctgaca ctggcggta ggttgtgtac attctggatc aagtccgtgc tttggagaat 180
 gagatgcttc tgaggattaa gcagcaaggc cttgatata ctccgaagat cctcattgtt 240
 accaggctgt tgctgatgc tgctgggact acgtgcggtc agcggctgga gaaggctcatt 300
 ggta 304

<210> 582
 <211> 304
 <212> DNA
 <213> Zea mays

<400> 582

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tctcccctgg agcagacatg agtggtttact acccgtatac ggaaaccgac aagagactca 180
ctgccttcca tcttgaaatc gaggagctca tctacagcga cgtcgagaac tccgagcaca 240
agttcgtgct gaaggacaag aagaagccga tcatcttctc gatggcgcgt ctcgaccgcg 300
tgaa 304

<210> 583

<211> 299

<212> DNA

<213> Zea mays

<400> 583

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aagatcetta ttgtcaccag gttgctccct gatgcaactg gcaccacctg tggccagcgc 120
cttgagaagg tccttggcac cgagcactgc catatccttc gcgtgccatt cagaacagaa 180
aacggaatcg ttcgcaagtg gatctcgca tttgaagtct ggccgtacct ggagacttac 240
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<210> 584

<211> 299

<212> DNA

<213> Zea mays

<400> 584

gagaaaacta agtaccctaa ctccgacctc tactggaaga agtttgagga tcaactaccac 60
ttctcgtgcc agttcaccac tgacttgatt gcaatgaacc atgccgactt catcatcacc 120
agtaccttcc aagagatcgc cggaaacaag gacaccgtcg gccagtacga gtcacacatg 180
gcgttcacaa tgccctggcct gtaccgcgtt gtccacggca ttgatgtgtt cgaccccaag 240
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<210> 585

<211> 296

<212> DNA
 <213> Zea mays
 <400> 585
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 cgcgtgccat tcagaacaga aaacggaatc gttcgcaagt ggatctcgcg atttgaagtc 120
 tggccgtacc tggagactta cactgatgac gtggcgcatg agattgctgg agagcttcag 180
 gccaatcctg acctgatcat cggaactac agtgacggaa accttgttgc gtgtttgctc 240
 gccacaaga tgggtgttac tcactgtacc attgcccatt cgcttgagaa aactaa 296

<210> 586
 <211> 301
 <212> DNA
 <213> Zea mays
 <400> 586
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 tcaagaagat gtttgacctc atcgagcagt acaacctgaa cgggcacatc cgctggatct 180
 ccgcccagat gaaccgcgtc cgcaacggcg agctgtaccg ctacatctgc gacaccaagg 240
 gcgccttcgt gcagcctgct ttctacgagg ctttcgggct gacggtgggtt gaggccatga 300
 c 301

<210> 587
 <211> 293
 <212> DNA
 <213> Zea mays
 <400> 587
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 cgcgctatgg agaacgaaat gctgctgagg atcaagcagt gtggtcttga catcacgccg 120
 aagatcctta ttgtcaccag gttgctccct gatgcaactg gcaccacctg tggccagcgc 180
 cttgagaagg tccttggcac cgagcactgc catatccttc gcgtgccatt cagaacagaa 240
 aacggaatcg ttcgcaagtg gatctcgca tttgaagtct ggccgtacct gga 293

<210> 588
 <211> 296
 <212> DNA
 <213> Zea mays

 <400> 588

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 caaggacaag gaggagcagg ccgagttcaa gaagatgttt gacctcatcg agcagtacaa 180
 cgtgaacggg cacatccgct ggatctccgc ccagatgaac cgcgtccgca acggcgagct 240
 gtaccgctac atctgcgaca ccaagggcgc ctctcgtgcag cctgctttct acgagg 296

<210> 589
 <211> 305
 <212> DNA
 <213> Zea mays

 <400> 589

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 tacagtgacg gaaaccttgt tgcgtgtttg ctgccccaca agatgggtgt tactcactgt 120
 accattgccc atgcgcttga gaaaactaag taccctaact ccgacctcta ctggaagaag 180
 tttgaggatc actaccactt ctctgtccag ttcaccactg acttgattgc aatgaaccat 240
 gccgacttca tcatcaccag taccttccaa gagatcgccg gaaacaagga caccgtcggc 300
 cagta 305

<210> 590
 <211> 297
 <212> DNA
 <213> Zea mays

 <400> 590

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 ctgtacggcc ggaacaagcg gctgcaggag ctggtgaacc tcgtggtcgt ctgcggcgac 180
 catggcaacc cttccaagga caaggaggag caggccgagt tcacgaagat gtttgacctc 240
 atcgagcagt acaacctgaa cgggcacatc cgctggatct ccgcgcagat gaaccgc 297

<210> 591
 <211> 299
 <212> DNA
 <213> Zea mays

 <400> 591

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 gctgtacggc cggaacaagc ggctgcagga gctgggtgaac ctctgtggtcg tctgcggcga 120
 ccatggcaac ccttccaagg acaaggagga gcaggccgag ttcaagaaga tgtttgacct 180
 catcgagcag tacaacctga acgggcacat ccgtctggatc tccgcccaga tgaaccgcgt 240
 ccgcaacggc gagctgtacc gctacatctg cgacaccaag ggcgcccttcg tgcagcctg 299

<210> 592
 <211> 299
 <212> DNA
 <213> Zea mays

 <400> 592

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 cgcgttcact cttctgggc tctaccgtgt cgtccatggc atcgatgttt tcatcccaa 180
 gttcaacatt gtctcccctg gagcagacat gagtgtttac taccgtata cggaaaccga 240
 caagagactc actgccttcc atcctgaaat cgaggagctc atctacagcg acgtcgaga 299

<210> 593
 <211> 295
 <212> DNA
 <213> Zea mays

 <400> 593

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 tgacctccct tcacccggag attgaggagc tctgtacag ccaaaccgag aacacggagc 180
 acaagttcgt tctgaacgac aggaacaagc caatcatctt ctccatggct cgtctcgacc 240
 gtgtgaagaa cttgactggg ctggtggagc tgtacggccg gaacaagcgg ctgca 295

<210> 594
 <211> 302
 <212> DNA
 <213> Zea mays

 <400> 594

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 ttggagaaaa ccaaataccc caactcggac atctacttgg acaagttcga cagccagtac 120
 cactttctctt gccagttcac agctgacctt attgccatga accacactga tttcatcatc 180
 accagcacat tccaagaaat cgcgggaagc aaggacaccg tggggcagta cgagtcccac 240
 atcgcgttca ctcttcctgg gctctaccgt gtcgtccatg gcacgatgt tttcgatccc 300
 aa 302

<210> 595
 <211> 314
 <212> DNA
 <213> Zea mays

 <400> 595

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 gggcgcattc gtgcagcctg cgttctacga agcgttcggc ctgactgtga tcgagtccat 120
 gacgtgcggt ctgccaacga tcgcgacctg ccatgggtggc cctgctgaga tcacgtgga 180
 cggggtatct ggctgcaca ttgacctta ccacagcgac aaggccgcgg atatcctggt 240
 caacttcttt gacaaatgca aggcagatcc gagctactgg gacaagatct cacagggcgg 300
 cctgcagaga attt 314

<210> 596
 <211> 356
 <212> DNA
 <213> Zea mays

 <400> 596

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 gcagacatga gtgattacta cccgtatacg gaaaccgcac aagagactca ctgccttcca 120
 tcctgaaatc gatgagctca tctacagcga cgtcgagaac tccgagcaca agttcgtgct 180

gaaggacaag aagaagccga tcattcttctc gatagcgcg ctcgaccgcg tgaagagaca 240
 tgacaggcct ggtcgagatg tacggcaaga acgcgcgcct gagggagctg gcgaacctcg 300
 tgatcgttgc cggtgaccac ggcaaggagt ccaaggacag ggaggagcag gcggag 356

<210> 597
 <211> 307
 <212> DNA
 <213> Zea mays

<400> 597

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 caacctagtc gccactctgc tcgcgcacaa gttgggagtc actcagtgtgta ccatcgctca 180
 tgccttgagg aaaaccaaact accccaactc ggacatatac ttggacaaat tcgacagcca 240
 gtaccacttc tcttgccagt tcacagctga ccttattgcc atgaaccaca ccgatttcat 300
 catcacc 307

<210> 598
 <211> 319
 <212> DNA
 <213> Zea mays

<400> 598

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 gccgacttca tcattcaccag taccttccaa gagatcgccg gcaacaagga caccgtcggc 120
 cagtacgagt cacacatggc gttcacaatg cctggcctgt accgcgttgt ccacggcatt 180
 gatgtgttcg accccaagtt caacatcgtg tctcctggcg cggacctgtc catctacttc 240
 ccgtacaccg agtcgcacaa gaggctgacc tcccttcacc cggagattga ggagctcctg 300
 tacagccaaa ccgagaaca 319

<210> 599
 <211> 303
 <212> DNA
 <213> Zea mays

<220>

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<221>      unsure
<222>      (1)..(303)
<223>      unsure at all n locations
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gaggctttcg	ggctgacggt	ggttgacgcc	atgacctgcg	gcctgcccac	gttcgccacc	120
gcctacggcg	gtccggccga	gatcatcgtg	cacggcgtgt	ctggctacca	catcgaccct	180
taccagggcg	acaaggcgtc	ggccctgctc	gtggacttct	tcgacaagtg	ccaggcggag	240
cgnagccact	ggagcaagat	ctcccagggc	gggctccagc	gtatcgagga	gaagtacacc	300
tgg						303

<400> 600

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tcgttctgaa	cgacaggaac	aagccaatca	tcttctccat	ggctcgtctc	gaccgtgtga	120
agaacttgac	tgggctggtg	gagctgtacg	gccggaacaa	gcggtgcag	gagctggtga	180
acctcgtggt	cgtctgcggc	gaccatggca	acccttccaa	ggacaaggag	gagcaggccg	240
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<400> 601

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gcagtgtggt	cttgacatca	cgccgaagat	ccttattgtc	accaggttgc	tcctgatgc	180
aactggcacc	acctgtggcc	agcgccttga	gaaggctcct	ggcaccgagc	actgccatat	240
ccttcgcgtg	ccattcagaa	cagaaaacgg	aatcgttcgc	aagtggatct	cgcgatttga	300

agtctggcc

309

<210> 602
<211> 323
<212> DNA
<213> Zea mays

<400> 602

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agatccgagc tactgggaca agatctcaca gggcggcctg cagagaattt atgagaagta 120
cacctggaag ctctactccg agaggctgat gaccctgacc ggcgtgtacg ggttctggaa 180
gtacgtgagc aacctggaga ggcgcgagac ccgccgctac atcgagatgt tctacgccct 240
gaagtaccgt agcctggcaa gccaggttcc gctgtccttc gattagtacg gggaaagaag 300
aagaagaaga agcccaggcc gga 323

<210> 603
<211> 333
<212> DNA
<213> Zea mays

<220>
<221> unsure
<222> (1)..(333)
<223> unsure at all n locations

<400> 603

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atggctcgtc tcgaccgtgt gaagaacttg actgggctgg tggagctgta cggccggaac 180
aagcggctgc aggagctggt gaacctcgtg gtcgtctgcg tgcgacatgg caacccttcc 240
aaggacaagg aggagcaggc cgagttcaag aagatgtttg acctcatcga gcagtacaac 300
ctgaacgggc acatccgctg gatctccgcc cag 333

<210> 604
<211> 322
<212> DNA
<213> Zea mays

<400> 604

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 cacaagttcg ttctgaacga caggaacaag ccaatcatct tctccatggc tcgtctcgac 180
 cgtgtgaaga acttgactgg gctgggtggag ctgtacggcc ggaacaagcg gctgcaggag 240
 ctggtgaacc tcgtggtcgt ctgcggcgac catggcaacc cttccaagga caaggaggag 300
 caggccgagt tcaagaagat gt 322

<210> 605
 <211> 290
 <212> DNA
 <213> Zea mays

<400> 605
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 ctctcttgg acctcttga ggcaccagat ccgtccacc tggagaagtt ccttgaacg 120
 atcccatgg tgttcaatgt cgttatectc tcccctcatg gttacttcgc tcaagctaata 180
 gtcttgggtt accctgacac cggaggccag gttgtctaca tcttgatca agtgcgcgct 240
 atggagaacg aatgctgct gaggatcaag cagtgtggtc ttgacatcac 290

<210> 606
 <211> 306
 <212> DNA
 <213> Zea mays

<400> 606
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 acatccgctg gatctccgcc cactatgaac cgcgtccgca acggcgagct gtaccgctac 120
 atctgcgaca ccaagggcgc cttcgtgcag cctgctttct acgaggcttt cgggctgacg 180
 gtggttgagg ccatgacctg cggcctgccc acgtttgcca cagcctacgg cggctccggcc 240
 gagatcatcg tgcacggcgt gtctggctac cacatcgacc cttaccaggg cgacaaggcg 300
 tcggcc 306

<210> 607
 <211> 293

<212> DNA
 <213> Zea mays
 <400> 607
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 cgtgcccaagt caccactgac ttgattgcaa tgaaccatgc cgacttcac atcaccagta 120
 ccttccaaga gatcgccgga aacaaggaca ccgtcggcca gtacgagtca cacatggcgt 180
 tcacaatgcc tggcctgtac cgcgttgctc acggcattga tgtgttcgac cccaagttca 240
 acatcgtgtc tcttggcgcg gacctgtcca tctacttccc gtacaccgag tcg 293

<210> 608
 <211> 314
 <212> DNA
 <213> Zea mays
 <400> 608
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 ggcgcattgag atagctggag agcttcaggc caatcctgac ctgatcatcg gaaactacag 180
 tgacggaaac cttgttgctg gtttgctcgc ccacaagatg ggtgttactc actgtaccat 240
 tgcccatgcg cttgagaaaa ctaagtaccc taactccgac ctctactgga agaagtctga 300
 ggatcactac cact 314

<210> 609
 <211> 313
 <212> DNA
 <213> Zea mays
 <400> 609
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 ctttcgggct gacggtggtt gaggccatga cctgcggcct gccacgttc gccaccgcct 180
 acggcggtcc ggccgagatc atcgtgcacg gcgtgtctgg ctaccacatc gacccttacc 240
 agggcgacaa ggcgtcggcc ctgctcgtgg acttcttcga caagtgccag gcggagcgag 300
 ccactggagc aag 313

<210> 610
 <211> 295
 <212> DNA
 <213> Zea mays

 <400> 610

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 cacggagcac aagttcgttc tgaacgacag gaacaagcca atcatcttct ccatggctcg 180
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<210> 611
 <211> 310
 <212> DNA
 <213> Zea mays

 <400> 611

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 ttcaagagtt aaatttacct accttgtcaa ggtcttgttc catcattgat ccgggtgtcg 120
 cttttttagt agtctgatgg actgtagta gtttgcgttg cgtcggttga gagggaaacgt 180
 tgggtggtggt ggtgtgtgtg cagtcaggcg tgggtgctccc tttgtttcct ggatgggatg 240
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<210> 612
 <211> 307
 <212> DNA
 <213> Zea mays

 <400> 612

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gctaccacat cgacccttac cagggcgaca aggcgtcggc cctgctcgtg gactttcttcg 300
acaagtg 307

<210> 613
<211> 302
<212> DNA
<213> Zea mays

<400> 613

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gatactgccaa acttgagaga gttccttgga actataccaa tgatgttcaa tgttggtatc 180
ctttctcttc atggctactt cgctcagtc aatgtgcttg gataccctga cactggcggt 240
caggttggtg acattctgga tcaagtcctg gctttggaga atgagatgct tctgaggatt 300
aa 302

<210> 614
<211> 304
<212> DNA
<213> Zea mays

<400> 614

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gccggaacaa gcggctgcag gagctgggtg acctcgtggc cgtctgcagc gaccatggca 180
acccttccaa ggacaaggag gagcaggccg agttcaagaa gatgtttgac ctcatcgagc 240
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gcga 304

<210> 615
<211> 295
<212> DNA
<213> Zea mays

<400> 615

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 ccttcgtgca gcctgctttc tacgaggctt tcgggctgac ggtgggtgag gccatgacct 180
 gcggcctgcc cacgttcgcc accgcctacg gcagtccggc cgagatcatc gtgcacggcg 240
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<210> 616
 <211> 288
 <212> DNA
 <213> Zea mays
 <400> 616

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 gaagaagttt gaggatcact accacttctc gtgccagttc accactgact tgattgcaat 180
 gaaccattgc cgacttcac caccaccagta ccttccaaga gatcgccgga aacaaggaca 240
 ccgtcggcca gtacgagtca cacatggcgt tcacaatgcc tggcctgt 288

<210> 617
 <211> 301
 <212> DNA
 <213> Zea mays
 <400> 617

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 ttcgctcaag ctaatgtctt ggggtaccct gacaccggag gccagggttg ctacatcttg 180
 gatcaagtgc gcgctatgga gaacgaaatg ctgctgagga tcaagcagtg tggctcttgac 240
 atcacgccga agatccttat tgtcaccagg ttgctccctg atgcaactgg caccacctgt 300
 g 301

<210> 618
 <211> 294
 <212> DNA
 <213> Zea mays

<220>

<210> 621
 <211> 298
 <212> DNA
 <213> Zea mays

<400> 621

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 agaacacgga gccacaagtt cgttctgaac gacaggaaca agccaatcat cttctccatg 180
 gctcgtctcg accgtgtgaa gaacttgact gggctggtgg agctgtacgg ccggaacaag 240
 cggctgcagg agctggtgaa cctcgtgggc gtctgcggcg accatggcaa cccttcca 298

<210> 622
 <211> 306
 <212> DNA
 <213> Zea mays

<220>
 <221> unsure
 <222> (1)..(306)
 <223> unsure at all n locations

<400> 622

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 ttcgggctga cggtggttga ggccatgacc tgccgctgc ccacgttcgc caccgcctac 180
 ggcgggtccg ccgagatcat cgtgcacggc gtgtctggct accacatcga cccttaccag 240
 ggcgacaagg cgtcggccct gctcgtggac ttcttcgaca agtgccaggc ggagcgangc 300
 cactgg 306

<210> 623
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 <212> DNA
 <213> Zea mays

<400> 623

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 tggagaggcg cgagaccgag cggtagctgg agatgctgta cgcgctcaag taccgcacca 120

tggcgagcac cgtgccgctg gccgtggagg gagagccctc cagcaagtga tgcgcgacgg 180
 cggccacaga cctgatcgat cgatgagcga gaggagcac tcggagtgtc gtgtcttttc 240
 ccttgccatt tctttctttt tttcccttcc cggaggcgaa aaaaagagtc tg 292

<210> 624
 <211> 283
 <212> DNA
 <213> Zea mays

<400> 624

caggccaatc ctgacctgat catcggaac tacagtgcg gaaaccttgt tgcgtgtttg 60
 ctgcgccaca agatgggtgt tactcactgt accattgcc atgcgcttga gaaaactaag 120
 taccctaact ccgacctcta ctggaagaag tttgaggatc actaccactt ctcggtccag 180
 ttcaccactg acttgattgc aatgaaccat gccgacttca tcatcaccag taccttccaa 240
 gagatcgccg gaaacaagga caccgtcggc cagtacgagt cac 283

<210> 625
 <211> 289
 <212> DNA
 <213> Zea mays

<400> 625

ggcgaacctc gtgatcgctg ccggtgacca cggcaaggag tccaaggaca gggaggagca 60
 ggcggagtgc aagaagatgt acagcctcat cgacgagtac aagttgaagg gccatatccg 120
 gtggatctcg gcgcagatga accgcgtccg caacggggag ctgtaccgct acatttgcca 180
 taccaagggc gcattcgtgc agcctgcgtt ctacgaagcg ttcgggctga ctgtgatcga 240
 gtccatgacg tgcggtctgc caacgatcgc gacctgccat ggtggccct 289

<210> 626
 <211> 295
 <212> DNA
 <213> Zea mays

<400> 626

cccacgcgtc cgcttgatc aagtgcgcgc tatggagaac gaaatgctgc tgaggatcaa 60
 gcagtgtggt cttgacatca cgccgaagat cttattgtc accaggttgc tccctgatgc 120

aactggcacc acctgtggcc agcgccttga gaaggctcctt ggcaccgagc actgccatat 180
 ccttcgcgtg ccattcagaa cagaaaacgg aatcgttcgc aagtggatct cgcgatttga 240
 agtctggccg tacctggaga cttacactga tgacgtggcg catgagattg ctgga 295

<210> 627
 <211> 283
 <212> DNA
 <213> Zea mays

<400> 627

ggagaacgaa atgctgctga ggatcaagca gtgtggtcctt gacatcacgc cgaagatcct 60
 tattgtcacc aggttgctcc ctgatgcaac tggcaccacc tgtggccagc gccttgagaa 120
 ggtccttggc accgagcact gccatatcct tcgcgtgcca ttcagaacag aaaacggaat 180
 cgttcgcaag tggatctcgc gatttgaagt ctggccgtac ctggagactt aactgatga 240
 cgtggcgcat gagattgctg gagagcttca ggccaatcct gac 283

<210> 628
 <211> 299
 <212> DNA
 <213> Zea mays

<400> 628

cccacgcgtc cgtgagtgtt tactaccctt atacggaaac cgacaagaga ctcaactgcct 60
 tccatcctga aatcgaggag ctcatctaca gcgacgtcga gaactccgag cacaagttcg 120
 tgctgaagga caagaagaag ccatcatctt tctcgatggc gcgtctcgac cgcgtgaaga 180
 acatgacagg cctggtcgag atgtacggca agaacgcgcg cctgagggag ctggcgaacc 240
 tcgtgatcgt tgccggtgac cacggcaagg agtccaagga caggaggag caggcggag 299

<210> 629
 <211> 286
 <212> DNA
 <213> Zea mays

<400> 629

cgcgatttga agtctggccg tacctggaga cttacactga tgacgtggcg catgagattg 60
 ctggagagct tcaggccaat cctgacctga tcatcggaat ctacagtgcg ggaaaccttg 120

ttgcgtgttt gctcgccac aagatgggtg ttactcactg taccattgcc catgcgcttg 180
 agaaaactaa gtaccctaac tccgacctct actggaagaa gtttgaggat cactaccact 240
 tctcgtgccca gttcaccaca gacttgattg caatgaacca tgccga 286

<210> 630
 <211> 293
 <212> DNA
 <213> Zea mays

<400> 630

caggaacttg gtctggagaa gggttgggtg gattgcgcta agcgtgcaca ggagactatc 60
 cacctcctct tggacctcct ggaggcccca gatccgtcca ccctggagaa gttccttgga 120
 acgatcccca tgggtgttcaa tgtcgttata ctctcccctc atgggttactt cgctcaagct 180
 aatgtcttgg gttaccctga caccggaggc cagggttgtct acatcttgga tcaagtgcgc 240
 gctatggaga acgaaatgct gctgaggatc aagcagtgtg gtcttgacat cac 293

<210> 631
 <211> 286
 <212> DNA
 <213> Zea mays

<400> 631

gaacgaaatg ctgctgagga tcaagcagtg tggctctgac atcacgccga agatccttat 60
 tgtcaccagg ttgctccctg atgcaactgg caccacctgt ggccagcgcc ttgagaaggt 120
 ccttggcacc gagcactgcc atatccttcg cgtgccattc agaacagaaa acggaatcgt 180
 tcgcaagtgg atctcgcgat ttgaagtctg gccgtacctg gagacttaca ctgatgacgt 240
 ggcgcatgag attgctggag agcttcaggc caatcctgac ctgata 286

<210> 632
 <211> 289
 <212> DNA
 <213> Zea mays

<400> 632

cctgaacggg cacatccgct ggatctccgc ccagatgaac cgcgtccgca acggcgagct 60
 gtaccgctac atctcgcaca ccaagggcgc cttcgtgcag cctgctttct acgaggcttt 120

cgggctgacg gtggttgagg ccatgacctg cggcctgccc acgtttgcca cagcctacgg 180
 cgggtccggcc gagatcatcg tgcacggcgt gtctggctac cacatcgacc cttaccaggg 240
 cgacaaggcg tcggccctgc tcgtggactt cttcgacaag tgccaggcg 289

<210> 633
 <211> 308
 <212> DNA
 <213> Zea mays

<220>
 <221> unsure
 <222> (1)..(308)
 <223> unsure at all n locations
 <400> 633

cggacggtgg ncgagacgcg tgggctgaca ccggaggcca ggttgctctac atcttggatc 60
 aagtgcgcgc tatggagaac gaaatgctgc tgaggatcaa gcagtgtggt cttgacatca 120
 cgccgaagat ccttattgtc accaggttgc tccctgatgc aactggcacc acctgtggcc 180
 agcgccttga gaaggctcctt ggcaccgagc actgccatat ctttcgctg ccattcagaa 240
 cagaaaacgg aatcgttcgc aagtggatct cgcgatttga agtctggccg tacctggaga 300
 cttacact 308

<210> 634
 <211> 286
 <212> DNA
 <213> Zea mays
 <400> 634

ggaggagcag gccgagttca agaagatggt tgacctcatc gagcagtaca acctgaacgg 60
 gcacatccgc tggatctccg ccagatgaa ccgcgtccgc aacggcgagc tgtaccgcta 120
 catctgcgac accaagggcg ctttcgtgca gcctgctttc tacgaggctt tcgggctgac 180
 ggtggttgag gccatgacct gcggcctgcc cacgttcgcc accgcctacg ggggtccggc 240
 cgagatcatc gtgcacggcg tgcggggcta ccacatcgac cttac 286

<210> 635
 <211> 281
 <212> DNA

<213> Zea mays

<400> 635

ccgtcggcca gtacgagtca cacatggcgt tcacaatgcc tggcctgtac cgcgttgccc 60
acggcattga tgtgttcgac cccaagttca acatcgtgtc tcctggcgcg gacctgtcca 120
tctacttccc gtacaccgag tcgcacaaga ggctgacctc cttcacceg gagattgagg 180
agctcctgta cagccaaacc gagaacacgg agcacaagtt cgttctgaac gacaggaaca 240
agccaatcat cttctccatg gctcgtctcg accgtgtgaa g 281

<210> 636

<211> 282

<212> DNA

<213> Zea mays

<400> 636

ggttacttcg ctcaagctaa tgtcttgggt taccctgaca ccggaggcca ggttgtctac 60
atcttggatc aagtgcgcgc tatggagaac gaaatgctgc tgaggatcaa gcagtgtgggt 120
cttgacatca cgccgaagat ccttattgtc accaggttgc tcctgatgc aactggcacc 180
acctgtggcc agcgccttga gaaggtcctt ggcaccgagc actgccatat ccttcgcgtg 240
ccattcagaa cagaaaacgg aatcgttcgc aagtggatct cg 282

<210> 637

<211> 279

<212> DNA

<213> Zea mays

<400> 637

catactctga atttcaccac aggttccagg aacttggctt ggagaagggt tggggtgatt 60
gcgctaagcg tgcacaggag actatccacc tcctcttga cctcctggag gccccagatc 120
cgtccaccct ggagaagttc cttggaacga tccccatggt gttcaatgtc gttatcctct 180
cccctcatgg ttacttcgct caagctaatt tcttgggtta ccctgacacc ggaggccagg 240
ttgtctacat cttggatcaa gtgcgcgcta tggagaacg 279

<210> 638

<211> 356

<212> DNA

<213> Zea mays
 <220>
 <221> unsure
 <222> (1)..(356)
 <223> unsure at all n locations
 <400> 638
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 gagccatgga gaagaccatt ggcttggtcc tgctggtcag aacgaacttg tgctccgtgt 120
 tctcggtttg gctgtacagg agctcctcaa tctccgggtg aaggagggtc agcctcttgt 180
 gcgactcggt gtacgggaag tagatggaca ggtccgcgcc aggagacacg atgttgaact 240
 tggggtcgaa cacatcaatg ccgtggacaa cgcggtacan gccaggcatt gtgaacgcca 300
 tgtgtgactc gtactggccg acggtgtcct tgtttccggc gatctctatg gaagta 356
 <210> 639
 <211> 288
 <212> DNA
 <213> Zea mays
 <400> 639
 accacttctc gtgccagttc accactgact tgattgcaat gaaccatgcc gacttcatca 60
 tcaccagtac cttccaagag atcgccggaa acaaggacac cgtcggccag tacgagtcac 120
 acatggcggt cacaatgcct ggctgtacc gcgttggtcca cggcattgat gtgttcgacc 180
 ccaagttcaa catcgtgtct cctggcgcgg acctgtccat ctacttcccg tacaccgagt 240
 cgcacaagag gctgacctcc cttcaccgg agattgagga gtcctctgt 288
 <210> 640
 <211> 294
 <212> DNA
 <213> Zea mays
 <400> 640
 ggccgagatc atcgtgcacg gcgtgtctgg ctaccacatc gacccttacc agggcgacaa 60
 ggcgtcggcc ctgctcgtgg acttcttcga caagtgccag gcggagcgag tccactggag 120
 caagatctcc cagggcgggc tccagcgtat cgaggagaag tacacctgga agctgtactc 180
 ggagaggctg atgacctca ccggcgtgta cgggttctgg aagtacgtgt ccaacctgga 240

gaggcgcgag acccggcggt acctggagat gctgtacgcy ctcaagtacc gcac 294

<210> 641
 <211> 311
 <212> DNA
 <213> Zea mays

<220>
 <221> unsure
 <222> (1)..(311)
 <223> unsure at all n locations

<400> 641

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 ggcgggctcc angcgtatcg aggagaagta cacctggaag ctgtactcgg agaggctgat 120
 gaccctcacc ggcgtgtacg ggttctggaa gtacgtgtcc aacctggaga ggcgcgagac 180
 ccggcggtac ctggagatgc tgtacgcgct caagtaccgc accatggcga gcaccgtgcc 240
 gctggccgtg gagggagagc ccnccagcaa gtgatgcgtg acggcggcca cagacctgat 300
 cgatcgatga g 311

<210> 642
 <211> 282
 <212> DNA
 <213> Zea mays

<400> 642

agctcctgta cagccaaacc gagaacacgg agcacaagtt cgttctgaac gacaggaaca 60
 agccaatcat cttctccatg gtcgtctcgc accgtgtgaa gaacttgact gggctggtgg 120
 agctgtacgg ccggaacaag cggctgcagg agctgggcaa cctcgtgggc gtctgcggcg 180
 accatggcaa cccttccaag gacaaggagg agcaggccga gttcaagaag atgtttgacc 240
 tcacgagca gtacaacctg aacgggcaca tccgctggat ct 282

<210> 643
 <211> 284
 <212> DNA
 <213> Zea mays

<400> 643

aaggacaccg tggggcagta cgagtcaccac atcgcggttca ctcttcctgg gctctaccgt 60
gtcgtccatg gcatcgatgt ttctgatccc aagttcaaca ttgtctcccc tggagcagac 120
atgagtgttt actacccgta tacggaaacc gacaagagac tcaactgcctt ccatcctgaa 180
atcgaggagc tcatctacag cgacgtcgag aactccgagc acaagtctgt gctgaaggac 240
aagaagaagc cgatcatctt ctcgatggcg cgtctcgacc gcgt 284

<210> 644
<211> 276
<212> DNA
<213> Zea mays

<400> 644

gttcaacatc gtgtctcctg gcgcggacct gtccatctac ttcccgtaca ccgagtcgca 60
caagaggctg acctcccttc acccgagat tgaggagctc ctgtacagcc aaaccgagaa 120
cacggagcac aagttcggtc tgaacgacag gaacaagcca atcatcttct ccatggctcg 180
tctcgaccgt gtgaagaact tgactgggct ggtggagctg tacggccgga acaagcggct 240
gcaggagctg gtgaacctcg tggtcgtctg cggcga 276

<210> 645
<211> 282
<212> DNA
<213> Zea mays

<400> 645

cccttggaac gatcccatg gtgttcaatg tcgttatcct ctcccctcat gggtacttcg 60
cacaagctaa tgtcttgggt taccctgaca ccggaggcca ggttgtctac atcttggatc 120
aagtgcgcgc tatggagaac gaaatgctgc tgaggatcaa gcagtgtggt cttgacatca 180
cgccgaagat ccttattgtc accaggttgc tcctgatgc aactggcacc acctgtggcc 240
agcgccttga gaaggtcctt ggcaccgagc actgccatat cc 282

<210> 646
<211> 286
<212> DNA
<213> Zea mays

<400> 646

gttgaggcca tgacctgcgg cctgcccacg tttgccacag cctacggcgg tccggccgag 60
atcatcgtgc acggcgtgtc tggctaccac atcgaccctt accagggcga caaggcgtcg 120
gccctgctcg tggacttctt cgacaagtgc caggcggacc cgagccactg gagcaagatc 180
tcccagggcg ggctccagcg tatcgaggag aagtacacct ggaagctcta ctcggagagg 240
ctgatgaccc tcaccggcgt gtacgggttc tggaagtacg tgtcca 286

<210> 647
<211> 280
<212> DNA
<213> Zea mays

<400> 647

gtaccctaac tccgacctct actggaagaa gtttgaggat cactaccact tctcgtgcca 60
gttcaccact gacttgattg caatgaacca tgccgacttc atcatcacca gtaccttcca 120
agagatcgcc ggaacaagg acaccgtcgg ccagtacgag tcacacatgg cgttcacaat 180
gcctggcctg taccgcgttg tccacggcat tgatgtgttc gacccaagt tcaacatcgt 240
gtctcctggc gcggacctgt ccatctactt cccgtacacc 280

<210> 648
<211> 286
<212> DNA
<213> Zea mays

<400> 648

cgatcatcgt gcacggcgtg tctggctacc acatcgaccc ttaccagggc gacaaggcgt 60
cggccctgct cgtggacttc ttcgacaagt gccaggcggg ccgagccact ggagcaagat 120
ctcccagggc gggctccagc gtatcgagga gaagtacacc tggaagctgt actcggagag 180
gctgatgacc ctcaccggcg tgtacgggtt ctggaagtac gtgtccaacc tggagaggcg 240
cgagaccccg cgttacctgg agatgctgta cgcgtcaag taccgc 286

<210> 649
<211> 331
<212> DNA
<213> Zea mays

<220>
<221> unsure

<222> (1)..(331)
 <223> unsure at all n locations

<400> 649

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tgccagcgta tcgaggagaa gtacacctgg aagctgtact cggagaggct gatgaccctc 120
accggcgtgt acgggttctg gaagtacgtg tccaacctgg agaggcgcgga gaccggcgcg 180
tacctggaga tgctgtacgc gctcaagtac cgcaccatgg cgagcaccgt gccgctggcc 240
gtggagggag agccctccag caagtgatgc gtgacggcgg cnacagacct gatcgatcga 300
tgagcgagat ggagcactcg gagtgtcgtg t 331
```

<210> 650
 <211> 288
 <212> DNA
 <213> Zea mays

<400> 650

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gaaccgcgtc cgcaacggcg agctgtaccg ctacatctgc gacaccaagg gcgccttcgt 120
gcagcctgct ttctacgagg ctttcgggct gacggtggtt gaggccatga cctgcggcct 180
gccacgttc gccaccgcct acggcgctacc ggccgagatc atcgtgcacg gcgtgtctgg 240
ctaccacatc gacccttacc agggcgacaa ggcgtcggcc ctgctcgt 288
```

<210> 651
 <211> 304
 <212> DNA
 <213> Zea mays

<400> 651

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gggttctgga agtacgtgtc caacctggag aggcgcgaga cccggcggta cctggagatg 60
ctgtacgcgc tcaagtaccg caccatggcg agcaccgtgc cgctggccgt ggagggagag 120
ccctccagca agtgatgcgc gacggcggcc acagacctga tcgatcgatg agcgagaggg 180
agcactcgga gtgtcgtgtc ttttcccttg ccatttcttt ctttttttcc cttcccggag 240
gcgaaaaaaa gagtctgctt ttgctaggcg gcgggcgttc gttgctgctc attgcttcaa 300
gagt 304
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<210> 652
 <211> 285
 <212> DNA
 <213> Zea mays

 <400> 652

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 tccgcaagtg gatctctcgt tttgatgtct ggccatacct ggagacatac actgaggatg 120
 tttccagtga aataatgaaa gaaatgcagg ccaagcctga ccttatcatt ggcaactaca 180
 gcgatggcaa cctagtcgcc actctgctcg cgcacaagtt gggagtcact cagtgtacca 240
 tcgctcatgc cttggagaaa accaaatacc ccaactcgga catat 285

<210> 653
 <211> 289
 <212> DNA
 <213> Zea mays

 <400> 653

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 acttggctctg gagaaggggtt ggggtgattg cgctaagcgt gcacaggaga ctatccacct 120
 cctcttggac ctcttgagg cccagatcc gtccaccctg gagaagttcc ttggaacgat 180
 ccccatggtg ttcaatgtcg ttatcctctc ccctcatggt tacttcgctc aagctaattg 240
 cttgggttac cctgacaccg gaagccaggt tgtctacatc ttggatcaa 289

<210> 654
 <211> 275
 <212> DNA
 <213> Zea mays

 <400> 654

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 gtacaacctg aacgggcaca tccgctggat ctccgcccag atgaaccgcg tccgcaacgg 120
 cgagctgtac cgctacatct gcgacaccaa gggcgcttc gtgcagcctg ctttctacga 180
 ggctttcggg ctgacggtgg ttgaggccat gacctgcggc ctgcccacgt tcgccaccgc 240
 ctacggcggg ccggccgaga tcatcgtgca cggcg 275

<210> 655
 <211> 278
 <212> DNA
 <213> Zea mays

<400> 655

gttccttgga acgatcccca tgggtgtcaa tgctcgttatc ctctcccctc atggttactt 60
 cgctcaagct aatgtcttgg gttaccctga caccggaggc caggttgtct acatcttgga 120
 tcaagtgcgc gctatggaga acgaaatgct gctgaggatc aagcagtgtg gtcttgacat 180
 cacgccgaag atccttattg tcaccagggtt gctccctgat gcaactggca ccacctgtgg 240
 ccagcgcctt gagaagctcc ttggcaccga gcactgcc 278

<210> 656
 <211> 296
 <212> DNA
 <213> Zea mays

<400> 656

gaaaactaag taccctaact ccgacctcta ctggaagaag tttgaggatc actaccactt 60
 ctctgtgccag ttcaccactg acttgattgc aatgaaccat gccgacttca tcatcaccag 120
 taccttccaa gagatcgccg gaaacaagga caccgtcggc cagtacgagt cacacatggc 180
 gttcacaatg cctggcctgt accgcgttgt ccacggcatt gatgtgttcg accccaagtt 240
 caacatcgtg tctcctggcg cggacctgtc catctacttc ccgtacaccg agtcgc 296

<210> 657
 <211> 278
 <212> DNA
 <213> Zea mays

<400> 657

aagaggctga cctcccttca cccggagatt gaggagctcc tgtacagcca aaccgagaac 60
 acggagcaca agttcgttct gaacgacagg aacaagccaa tcatcttctc catggctcgt 120
 ctcgaccgtg tgaagaactt gactgggctg gtggagctgt acggccggaa caagcggctg 180
 caggagctgg tgaacctcgt ggtcgtctgc ggcgaccatg gcaacccttc caaggacaag 240
 gaggagcagg ccgagttcaa gaagatgttt gacctcat 278

<210> 658
 <211> 306
 <212> DNA
 <213> Zea mays

<220>
 <221> unsure
 <222> (1)..(306)
 <223> unsure at all n locations

<400> 658

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 caatgtcggtt atcctctccc ctcatgggtta cttegtctcaa gctaattgtct tggggttacct 120
 tgacaccgga ggccagggttg tctacatctt ggatcaagtg cgcgctatgg agaacgaaat 180
 gctgctgagg atcaagcagt gtggtcttga catcacgccg aagatcctta ttgtcaccag 240
 gttgcnccct gatgcaagtg gcaccacctg tggccagcgc tttgagaggg tcttggtcccc 300
 gaacat 306

<210> 659
 <211> 306
 <212> DNA
 <213> Zea mays

<400> 659

ctcggagagg ctgatgaccc tcaccggcgt gtacgggttc tggaagtacg tgtccaacct 60
 ggagaggcgc gagacccggc ggtacctgga gatgctgtac gcgctcaagt accgcaccat 120
 ggcgagcacc gtgccgctgg ccgtggaggg agagccctcc agcaagtgat gcgcgacggc 180
 ggccacagac ctgatcgatc gatgagcgag agggagcact cggagtgtcg tgtcttttcc 240
 cttgccatth ctttcttttt ttcccttccc ggaggcgaaa aaaagagtct gcttttgcta 300
 ggcggc 306

<210> 660
 <211> 287
 <212> DNA
 <213> Zea mays

<400> 660

cggaccgtgg gcgtggcgca tgagattgct ggagagcttc aggccaatcc tgacctgac 60
 atcggaaact acagtgacgg aaaccttggt gcgtgtttgc tcgcccacaa gatgggtggt 120
 actcactgta ccattgccc tgcgcttgag aaaactaagt accctaactc cgacctctac 180
 tggaagaagt ttgaggatca ctaccacttc tcgtgccagt tcaccactga cttgattgca 240
 atgaaccatg ccgacttcat catcaccagt accttccaag agatcgc 287

<210> 661
 <211> 276
 <212> DNA
 <213> Zea mays

<400> 661

aagagatcgc cggaaacaag gacaccgtcg gccagtacga gtcacacatg gcgttcacaa 60
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 tgtctcctgg cgcggacctg tccatctact tcccgtagac cgagtcgcac aagaggctga 180
 cctcccttca cccggagatt gaggagctcc tgtacagcca aaccgagaac acggagcaca 240
 agttcgttct gaacgacagg aacaagccaa tcatct 276

<210> 662
 <211> 276
 <212> DNA
 <213> Zea mays

<400> 662

ggcgtcggcc ctgctcgtgg acttcttcga caagtgccag gcggaccga gccactggag 60
 caagatctcc cagggcgggc tccagcgtat cgaggagaag tacacctgga agctctactc 120
 ggagaggctg atgacctca ccggcgtgta cgggttctgg aagtacgtgt ccaacctgga 180
 gaggcgcgag acccggcggt acctggagat gctgtacgcg ctcaagtacc gcacctggc 240
 gagcaccgtg ccgctggccg tggagggaga gcctcc 276

<210> 663
 <211> 274
 <212> DNA
 <213> Zea mays

<400> 663

gaatttcacc acaggttcca ggaacttggt ctggagaagg gttgggggtga ttgcgctaag 60
 cgtgcacagg agactatcca cctcctcttg gacctcctgg aggccccaga tccgtccacc 120
 ctggagaagt tccttggaac gatcccatg gtgttcaatg tcgttatcct ctcccctcat 180
 ggttacttcg ctcaagctaa tgtcttggtg taccctgaca ccggaggcca ggttgtctac 240
 atcttggtac aagtgcgcgc tatggagaac gaaa 274

<210> 664
 <211> 308
 <212> DNA
 <213> Zea mays

<400> 664

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 cgagtcacac atggcggttca caatgcctgg cctgtaccgc gttgtccacg gcattgatgt 120
 gttcgacccc aagttcaaca tcgtgtctcc tggcgcggac ctgtccatct acttcccgtta 180
 caccgagtcg cacaagaggc tgacctcctt tcacccggag attgaggagc tcctgtacag 240
 ccaaaccgag aacacggagc acaagttcgt tctgaacgac aggaacaagc caatcatctt 300
 ctccatgg 308

<210> 665
 <211> 279
 <212> DNA
 <213> Zea mays

<400> 665

tgcccatgcg cttgagaaaa ctaagtaccc taactccgac ctctactgga agaagtttga 60
 ggatcactac cacttctcgt gccagttcac cacagacttg attgcaatga accatgccga 120
 cttcatcatc accagtacct tccaagagat cgccggaaac aaggacaccg tcggccagta 180
 cgagtcacac atggcggttca caatgcctgg cctgtaccgc gtcgtccacg gcattgatgt 240
 gttcgacccc aagttcaaca tcgtgtctcc tggcgcggga 279

<210> 666
 <211> 277
 <212> DNA
 <213> Zea mays

<400> 666

atccccatgg tgttcaatgt cgttatectc tcccctcatg gttacttcgc tcaagctaata 60

gtcttggggtt accctgacac cggaggccag gttgtctaca tcttgatca agtgcgcgct 120

atggagaacg aaatgctgct gaggatcaag cagtgtggtc ttgacatcac gccgaagatc 180

cttattgtca ccaggttgct cctgatgca actggcacca cctgtggcca gcgccttgag 240

aaggtccttg gcaccgagca ctgccatata cttcgcg 277

<210> 667

<211> 284

<212> DNA

<213> Zea mays

<400> 667

cctgggctct accgtgtcgt ccatggcatc gatgttttcg atcccaagtt caacattgtc 60

tcccctggag cagacatgag tgtttactac ccgtatacgg aaaccgacaa gagactcact 120

gccttccatc ctgaaatcga ggagctcatc tacagcgacg tcgagaactc cgagcacaag 180

ttcgtgctga aggacaagaa gaagccgac atcttctcga tggcgcgctct cgaccgcgtg 240

aagaacatga caggcctggg cgagatgtac ggcaagaacg cgcg 284

<210> 668

<211> 286

<212> DNA

<213> Zea mays

<400> 668

ctgaaatcga ggagctcatc tacagcgacg tcgagaactc cgagcacaag ttcgtgctga 60

acgacaagaa gaagccgac atcttctcga tggcgcgctct cgaccgcgtg aagaacatga 120

caggcctggg cgagatgtac ggcaagaacg cgcgcctgac ggagctggcg aacctcgtga 180

tcgttgccgg tgaccacggc aaggagtcca aggacaggga ggagcaggcg gaggttcaaga 240

agatgtacag cctcatcgac gaggtagt tgaagggccca tatccg 286

<210> 669

<211> 271

<212> DNA

<213> Zea mays

<400> 669

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agctcctgta cagccaaacc gagaacacgg agcacaagtt cgttctgaac gacaggaaca 120

agccaatcat cttctccatg gctcgtctcg accgtgtgaa gaacttgact gggctggtgg 180

agctgtacgg ccggaacaag cggctgcagg agctggtgaa cctcgtggtc gtctgcggcg 240

accatggcaa cccttccaag gacaaggagg a 271

<210> 670

<211> 273

<212> DNA

<213> Zea mays

<400> 670

cccgtaacac gagtcgcaca agaggctgac ctcccttcac ccggagattg aggagctcct 60

gtacagccaa accgagaaca cggagcacao gttcgttctg aacgacagga acaagccaat 120

catctttctcc atggctcgtc tcgaccgtgt gaagaacttg actgggctgg tggagctgta 180

cggccggaac aagcggctgc aggagctggt gaacctcgtg gtcgtctgcg gcgaccatgg 240

caacccttcc agggacaagg aggagcaggc cga 273

<210> 671

<211> 270

<212> DNA

<213> Zea mays

<400> 671

ctcatctaca gcgacgtcga gaactccgag cacaagttcg tgctgaagga caagaagaag 60

ccgatcatct tctcgatggc gcgtctcgac cgcgtgaaga acatgacagg cctggctcgag 120

atgtacggca agaacgcgcg cctgagggag ctggcgaacc tcgtgatcgt tgccggtgac 180

cacggcaagg agtccaagga cagggaggag caggcggagt tcaagaagat gtacagcctc 240

atcgacgagt acaagttgaa gggccatatc 270

<210> 672

<211> 271

<212> DNA

<213> Zea mays

<400> 672

agattgagga gctcctgtac agccaaaccg agaacacgga gcacaagttc gttctgaacg 60

acaggaacaa gccaatcatc ttctccatgg ctctgtctga ccgtgtgaag aacttgactg 120

ggctggtgga gctgtacggc cggaacaagc ggctgcagga gctggtgaac ctctgtggtcg 180

tctgcggcga ccatggcaac ccttccaagg acaaggagga gcaggccgag ttcaagaaga 240

tgtttgacct catcgagcag tacaacctga a 271

<210> 673

<211> 274

<212> DNA

<213> Zea mays

<400> 673

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gaccatggca acccttccaa ggacaaggag gagcaggccg agttcaagaa gatgtttgac 120

ctcatcgagc agtacaacct gaacggggcac atccgctgga tctccgccca gatgaaccgc 180

gtccgcaacg gcgagctgta ccgctacatc tgcgacacca agggcgcctt cgtgcagcct 240

gctttctacg aggctttcgg gctgacggtg gttg 274

<210> 674

<211> 269

<212> DNA

<213> Zea mays

<400> 674

cctcccttca cccggagatt gaggagctcc tgtacagcca aaccgagaac acggagcaca 60

agttcgttct gaacgacagg aacaagccaa tcattctctc catggctcgt ctcgaccgtg 120

tgaagaactt gactgggctg gtggagctgt acggccggaa caagcggctg caggagctgg 180

tgaacctcgt ggctgtctgc ggcgaccatg gcaacccttc caaggacaag gaggagcagg 240

ccgattcaa gaagatgttt gacctcatc 269

<210> 675

<211> 273

<212> DNA

<213> Zea mays

<400> 675

ctgtggccag cgccttgaga aggtccttgg caccgagcac tgccatatcc ttcgcgtgcc 60
attcagaaca gaaaacggaa tcgttcgcaa gtggatctcg cgatttgaag tctggccgta 120
cctggagact tacactgatg acgtggcgca tgagattgct ggagagcttc aggccaatcc 180
tgacctgatc atcggaaact acagtgcgg aaaccttggt gcgtgtttgc tcgcccacaa 240
gatgggtggt actcactgta ccattgccca tgc 273

<210> 676

<211> 285

<212> DNA

<213> Zea mays

<400> 676

ccaagggcgc cttcgtgcag cctgctttct acgaggcttt cgggctgacg gtggttgacg 60
ccatgacctg cggcctgccc acgttcgcca ccgcctacgg cggtcgggcc gagatcatcg 120
tgcaaggcgt gtctggctac cacatcgacc cttaccaggg cgacaaggcg tcggccctgc 180
tcgtggactt cttcgacaag tgccaggcgg accgagccac tggagcaaga tctcccaggg 240
cgggctccag cgtatcgagg agaagtacac ctggaagctg tactc 285

<210> 677

<211> 281

<212> DNA

<213> Zea mays

<400> 677

atcgagcagt acaacctgaa cgggcacatc cgctggatct ccgccagat gaaccgcgtc 60
cgcaacggcg agctgtaccg ctacatctgc gacaccaagg gcgccttcgt gcagcctgct 120
ttctacgagg ctttcgggct gacggtggtt gaggccatga cctgcggcct gccacgcttc 180
gccaccgcct acggcgggtc ggccgagatc atcgtgcacg gcgtgtctgg ctaccacatc 240
gacccttacc agggcgacaa ggcgtcggcc ctgctcgtgg a 281

<210> 678

<211> 297

<212> DNA

<213> Zea mays

<400> 678

ctggagcaga catgagtgtt tactacccgt atacggaaac cgacaagaga ctactgcct 60
tccatcctga aatcgaggag ctcatcaaca gcgacgtcga gaactccgag cacaagttcg 120
tgctgaagga caagaagaag ccgatcatct tctcgatggc gcgtctcgac cgcgtgaaga 180
acatgacagg cctggtggag atgtacggca agaacgcgcg cctgagggag ctggcgaacc 240
tcgtgatcgt cgccggtgac cacggcaaga gtccaaggac agggaggagc aggcgga 297

<210> 679

<211> 273

<212> DNA

<213> Zea mays

<400> 679

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gctcgtggac ttcttcgaca agtgccaggc ggacccgagc cactggagca agatctccca 120
gggcgggctc cagcgtatcg aggagaagta cacctggaag ctctactcgg agaggctgat 180
gaccctcacc ggcgtgtacg ggttctggaa gtacgtgtcc aacctggaga ggcgcgagac 240
ccggcggtac ctggagatgc tgtacgcgct caa 273

<210> 680

<211> 279

<212> DNA

<213> Zea mays

<400> 680

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tgccgacttc atcatcacca gtaccttcca agagatcgcc ggaaacaagg acaccgtcgg 120
ccagtacgag tcacacatgg cgttcacaat gcctggcctg taccgcgttg tccacggcat 180
tgatgtgttc gacccaagt tcaacatcgt gtctcctggc gcggacctgt ccatctactt 240
cccgtacacc gagtcgcaca agaggetgac ctcccttca 279

<210> 681

<211> 283

<212> DNA

<213> Zea mays

<400> 681

cgcgttcact cttcctgggc tctaccgtgt cgtccatggc atcgatgttt tcgatcccaa 60

gttcaacatt gtctcccctg gagcagacat gagtgtttac taccgtata cggaaccga 120

caagagactc actgccttcc atcctgaaat cgaggagctc atcaacagcg acgtcgagaa 180

ctccgagcac aagttcgtgc tgaaggacaa gaagaagccg atcatcttct cgatggcgcg 240

tctcgaccgc gtgaagaaca tgacaggcct ggtggagatg tac 283

<210> 682

<211> 302

<212> DNA

<213> Zea mays

<400> 682

taccgagatc atcgtgcacg gcgtgtctgg ctaccacatc gacccttacc agggcgacaa 60

ggcgtcggcc ctgctcgtgg agttcttcga caagtgccag gcggaccga gccactggag 120

caagatctcc cagggcgggc tccagcgtat cgaggagaag tacacctgga agctctactc 180

ggagaggctg atgaccctca ccggcgtgta cgggttctgg aagtacgtgt ccaacctgga 240

gaagcgcgat acccggcggg acctggagga gctgtacgcg ctcaagtacc gcaccatggc 300

ga 302

<210> 683

<211> 300

<212> DNA

<213> Zea mays

<400> 683

agaagatggt tgacctcatc gagcagtaca acctgaacgg gcacatccgc tggatctccg 60

cccagatgaa ccgcgtccgc aacggcgagc tgtaccgcta catctgcgac accaagggcg 120

ccttcgtgca gcctgctttc tacgaggctt tcgggctgac ggtgggtgag gccatgacct 180

gcggcctgcc cacgttcgcc accgcctacg gcgggtccggc cgagatcatc gtgcacggcg 240

tgtctggcct acacatcgga ccttaccag gcgacaaagc gtcggcactg ctcgtggact 300

<210> 684

<211> 264

<212> DNA

<213> Zea mays

<400> 684

ggccgagttc aagaagatgt ttgacctcat cgagcagtac aacctgaacg ggcacatccg 60
ctggatctcc gccagatga accgcgtccg caacggcgag ctgtaccgct acatctgcga 120
caccaagggc gccttcgtgc agcctgcttt ctacgaggct ttcgggctga cggtggttga 180
ggccatgacc tgcggcctgc ccacgtttgc cacagcctac ggcggtccgg ccgagatcat 240
cgtgcacggc gtgtctggct acca 264

<210> 685

<211> 325

<212> DNA

<213> Zea mays

<400> 685

gtcggaaaca gcggtgcag gagctggtga cctcgtggtc gtctgcggcg accatggcaa 60
cccttccaag gacaaggatg atcaggccga gttcaagaag atgtttgacc tcatcgagca 120
gtacaacctg aacgggtaca tccgtggat ctccgccag atgaaccgag tccgcaacgg 180
cgagctgtac cgctacatct gcgacaccat aggcgcttc gtgcagcctg ctttctacga 240
ggctttcggg ctgacggtgg ttgaagctat gacctgcggc ctgcccagat tccccaccgc 300
ctagagggtc cggccagatc atcgt 325

<210> 686

<211> 291

<212> DNA

<213> Zea mays

<400> 686

ggacctggga agtacacctg gaagctgtac tcggagaggc tgatgaccct caccggcgtg 60
tacgggttct ggaagtacgt gtccaacctg gagaggcgag agaccggcg gtacctggag 120
atgctgtacg cgctcaagta ccgcaccatg gcgagcaccg tgccgctggc cgtggaggga 180
gagccctcca gcaagtgatg cgtgacggcg gccacagacc tgatcgatcg atgagcgaga 240
gggagcactc ggagtgtcgt gtcttttccc ttgccatttc tttctttctt c 291

<210> 687

<211> 279
 <212> DNA
 <213> Zea mays

<400> 687

gcgttggtcca cggcattgat gtgttcgacc ccaagttcaa catcgtgtct cctggcgcg 60
 acctgtccat ctacttcccg tacaccgagt cgcacaagag gctgacctcc cttcaccgg 120
 agattgagga gtcctgtac agccaaaccg agaacacgga gcacaagttc gttctgaacg 180
 acaggaacaa gccaatcatc ttctccatgg ctogtctcga ccgtgtgaag aacttgactg 240
 ggctggtgga gctgtacggc cggaacaagc ggctgcagg 279

<210> 688
 <211> 270
 <212> DNA
 <213> Zea mays

<220>
 <221> unsure
 <222> (1)..(270)
 <223> unsure at all n locations

<400> 688

gccctgctcg tggacttctt cgacaagtgc caggcggagc gagccactgg agcaagatct 60
 cccagggcgg gctccagcgt atcgaggaga agtacacctg gaagctgtac tcggagaggc 120
 tgatgacct caccggcgtg tacgggttct ggaagtacgt gtccaacctg gagaggcgcg 180
 agaccggcg gtacctggag atgctgtacg cgctcaagta ccgcaccatg gcgagcaccg 240
 tgccgctggc cgtggnagga gagccctcag 270

<210> 689
 <211> 274
 <212> DNA
 <213> Zea mays

<400> 689

ggctgacggt ggttgaggcc atgacctgcg gcctgcccac gtttgccaca gcctacggcg 60
 gtccggccga gatcatcgtg caccggcgtg ctggctacca catcgacct taccagggcg 120
 acaaggcgtc ggccctgctc gtggacttct tcgacaagtg ccaggcggac ccgagccact 180
 ggagcaagat ctcccagggc gggctccagc gtatcgagga gaagtacacc tggaagctct 240

actcggagag gctgatgaac ctcaccggcg tgta 274

<210> 690
 <211> 267
 <212> DNA
 <213> Zea mays

<400> 690

cggagcacaa gttcgttctg aacgacagga acaagccaat catcttctcc atggctcgtc 60
 tcgaccgtgt gaagaacttg actgggctgg tggagctgta cggccggaac aagcggctgc 120
 aggagctggt gaacctcgtg gtcgtctgcg gcgaccatgg caacccttcc aaggacaagg 180
 aggagcaggg cgagttcaag aagatgtttg acctcatcga gcagtacaac ctgaacgggc 240
 acatccgctg gatctccgcc cagatga 267

<210> 691
 <211> 268
 <212> DNA
 <213> Zea mays

<400> 691

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 ggaacaagcg gctgcaggag ctggtgaacc tcgtggtcgt ctgcggcgac catggcaacc 180
 cttccaagga caaggaggag caggccgagt tcaagaagat gtttgacctc atcgagcagt 240
 acaacctgaa cgggcacatc cgctggat 268

<210> 692
 <211> 273
 <212> DNA
 <213> Zea mays

<400> 692

cgagaacacg gagcacaagt tcgttctgaa cgacaggaag gggccaatca tcttctccat 60
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 gcggctgcag gagctggtga acctcgtggt cgtctgcggc gaccatggca acccttccaa 180
 ggacaaggag gagcaggccg agttcaagaa gatgtttgac ctcatcgagc agtacaacct 240

gaacgggcac atccgctgga tctccgccca gat 273

<210> 693
 <211> 268
 <212> DNA
 <213> Zea mays

<400> 693

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 tgcgacacca agggcgccct cgtgcagcct gctttctacg aggctttcgg gctgacggtg 240
 gttgaggcca tgacctgcgg cctgccca 268

<210> 694
 <211> 280
 <212> DNA
 <213> Zea mays

<400> 694

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 gtaccgctac atctgcgaca ccaagggcgc cttcgtgcag cctgctttct acgaggcttt 240
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<210> 695
 <211> 270
 <212> DNA
 <213> Zea mays

<400> 695

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 gacggtgggt gaggccatga cctgcggcct gccacggttt gccacagcct acggcggtcc 180
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ggcgtcggcc ctgctcgtgg acttcttcga

270

<210> 696

<211> 282

<212> DNA

<213> Zea mays

<400> 696

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actgacttga ttgcaatgaa ccatgccgac ttcacatca ccagtacctt ccaagagatc 120

gccggaaaca aggacaccgt cggccagtac gagtcacaca tggcgttcac aatgcctggc 180

ctgtaccgcg ttgtccacgg cattgatgtg ttcgacccca agttcaacat cgtgtctcct 240

ggcgcggacc tgtccatcta cttcccgta accgagtcgc ac 282

<210> 697

<211> 285

<212> DNA

<213> Zea mays

<400> 697

ccttcgtgcg tccttctctg tcaaagtcca ttggcaatgg cgtgcagttc ctcaacaggc 60

acctgtcatc aaagctcttc catgacaagg agagcatgta ccccttgctc aacttccttc 120

gcgcccacaa ctacaagggg atgaccatga tgttgaacga cagaatccgc agtctcagtg 180

ctctgcaagg tgcgctgagg aaggctgagg agcacctgtc caccctacaa gctgataccc 240

catactctga atttcaccac aggttccagg aacttgggtc ggaga 285

<210> 698

<211> 264

<212> DNA

<213> Zea mays

<400> 698

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gtggcgcag agattgctgg agagcttcag gccaatcctg acctgatcat cggaaactac 120

agtgacggaa accttggtgc gtgtttgctc gccacaaga tgggtgttac tctactgtacc 180

attgcccag cgcttgagaa aactaagtac cctaactccg acctctactg gaagaagttt 240

gaggatcact accacttctc gtgc 264

<210> 699
 <211> 264
 <212> DNA
 <213> Zea mays

<400> 699

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 agtaccttcc aagagatcgc cggaaacaag gacaccgtcg gccagtacga gtcacacatg 180
 gcgttcacaa tgccctggcct gtaccgcgtt gtccacggca ttgatgtgtt cgaccccaag 240
 ttcaacatcg tgtctcctgg cgcg 264

<210> 700
 <211> 264
 <212> DNA
 <213> Zea mays

<400> 700

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 tggcgtgcag ttccctcaaca ggcacctgtc atcaaagctc ttccatgaca aggagagcat 120
 gtaccccttg ctcaacttcc ttgcgcacca caactacaag gggatgacca tgatgttgaa 180
 cgacagaatc cgcagtctca gtgctctgca aggtgcgctg aggaaggctg aggagcacct 240
 gtccacccta caagctgata cccc 264

<210> 701
 <211> 288
 <212> DNA
 <213> Zea mays

<400> 701

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 acttcgctca agctaattgtc ttgggttacc ctgacaccgg atgccagggt gtatacatct 120
 tggatcaagt gcgcgctatg gagaacgaaa tgctgctgag gatcaagcag tgtggtcttg 180
 acatcacgcc gaagatcctt attgtcacca ggttgctccc tgatgcaact ggcaccacct 240

gtggccagcg ccttgagaag gtccttgga ccgagcactg ccatatcc 288

<210> 702
<211> 268
<212> DNA
<213> Zea mays

<400> 702

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tgagatgct gtacgcgtc aagtaccgca ccatggcgag caccgtgccg ctggccgtgg 180
agggagagcc ctccagcaag tgatgcgcga cggcggccac agacctgac gatcgatgag 240
cgagagggag cactcggagt gtcgtgtc 268

<210> 703
<211> 265
<212> DNA
<213> Zea mays

<400> 703

gagaaaacta agtaccctaa ctccgacctc tactggaaga agtttgagga tcaactaccac 60
ttctcgtgcc agttcaccac tgacttgatt gcaatgaacc atgccgactt catcatcacc 120
agtaccttcc aagagatcgc cggaaacaag gacaccgtcg gccagtacga gtcacacatg 180
gcgttcacaa tgcttggcct gtaccgcgtt gtccaaggca ttgatgtgtt cgacccaag 240
ttcaacatcg tgtctcctgg cgcgg 265

<210> 704
<211> 228
<212> DNA
<213> Zea mays

<400> 704

gttcaacatc gtgtctctg gcgcggacct gtccatctac ttcccgtaca ccgagtcga 60
caagaggctg acctcccttc acccgagat tgaggagctc ctgtacagcc aaaccgagaa 120
cacggagcac aagttcgttc tgaacgacag gaacaagcca atcatcttct ccatggctcg 180
tctcgaccgt gtgaagaact tgactgggct ggtggagttg tacggccg 228

<210> 705
 <211> 297
 <212> DNA
 <213> Zea mays

<400> 705

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 gctcctgtac agccaaaccg agaacacgga gcacaagttc gatctgaacg acagcgaaca 120
 agccaatcat cttctccatg gctcgtctcg accgtgtgaa gaacttgact gggctgggtg 180
 agctgtacgg ccggaacaag cggctgcagg agctgggtgaa cctcgtgggc gtctgcggcg 240
 accatggcaa cccttccaag gacaaggagg agcaggccga gttcaagaag atgtttg 297

<210> 706
 <211> 286
 <212> DNA
 <213> Zea mays

<400> 706

attgaccctt accacagcga caaggccgcg gatatacctg tcaacttctt tgacaaatgc 60
 aaggcagatc cgagctactg ggacaagatc tcacagggcg gcctgcagag aatctatgag 120
 aagtacacct ggaagctcta ctccgagagg ctgatgacct tgaccggcgt gtacgggttc 180
 tggaagtacg tgagcaacct ggagaggcgc gagaccgcgc gctacatcga gatgttctac 240
 gccctgaagt accgtagcct ggcaagccag ggtccgctgt ccttcg 286

<210> 707
 <211> 272
 <212> DNA
 <213> Zea mays

<400> 707

gagaaggggtt ggggtgattg cgctaagcgt gcacaggaga ctatccacct cctcttggac 60
 ctcttgagg cccagatcc gtccaccctg gagaagttcc ttgtacgac cccatgggtg 120
 tcaatgtcgt tatcctctcc cctcatgggt acttcgctca agctaattgc ttgggttacc 180
 ctgacaccgg aggccagggt gtctacatct tggatcaagt gcgtgctatg gagaacgaaa 240
 tgctgctgag gatcaagcag tgtggtcttg ac 272

<210> 708
 <211> 299
 <212> DNA
 <213> Zea mays

<400> 708

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 taccctttct cctcatggct acttcgctca gtccaatgtg cttggatacc ctgacactgg 120
 cggtcagggt gtgtacattc tggatcaagt ccgtgctttg gagaatgaga tgcttctgag 180
 gattaagcag caaggccttg atatcactcc gaagatcctc attgttacca ggctgttgcc 240
 tgatgctgct gggactacgt gcggtcatcg gctggagaag gtcattggta ctgagcaca 299

<210> 709
 <211> 329
 <212> DNA
 <213> Zea mays

<400> 709

acgcaccgac cacgggtccgc gacctgggtc gctggctgaa cgggcacatc cgctggatct 60
 ccgcccagct gaaccgcgtc cgcaacgacg agctgtaccg ctacatctgc gacaccaagg 120
 gcgccttcgt gcagcctgct ttctacgagg ctttcgggct gacgggtggtt gacgccatga 180
 cctgcggcct gccacggtt gccacagcct acggcggtcc ggccgagatc atcgtgcacg 240
 gcgtgtctgg ctaccacatc gacccttacc agggcgacaa ggcgtcggcc ctgctcgtgg 300
 acttcttcga caagtgccag gctgaccgg 329

<210> 710
 <211> 287
 <212> DNA
 <213> Zea mays

<400> 710

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 ataccttggt gcgtgtttgc tcgcccacaa gatgggtgtt actcactgta ccattgccca 120
 tgcgcttgat aaaactaagt accctaactc cgacctctac tggaagaagt ttgatgatca 180
 ctaccacttc tcgtgccagt tcaccactga cttgattgct atgaaccatg ccgacttcat 240

catcaccagt accttccaag agatcgccgg atacaaggac accgtcg 287

<210> 711
<211> 290
<212> DNA
<213> Zea mays

<400> 711

gggctctacc gtgtcgtcca tggcatcgat gttttcgatc ccaagttcaa cattgtctcc 60
cctggagcag acatgagtgt ttactacccg tatacggaaa ccgacaagag actcactgcc 120
ttccatcctg aaatcgagga gctcatctac agcgacgtcg agaactccga gcacaagttc 180
gtgctgaagg acaagaagaa gccctcatc ttctcgatgg cgcgtctcga ccgctgaag 240
aacatgacag gcctggtcga gatgtacggc aagaacgcgc gcctgaggga 290

<210> 712
<211> 290
<212> DNA
<213> Zea mays

<400> 712

cccacgcgtc cgttccctcaa cacgcacctc ccatcaaagc tcttccatga caaggagagc 60
atgtaccctt tgctcaactt ccttcgcgcc cacaactaca aggggaccac catgatgttg 120
aacgacagac tccgcagtct cagtgtcttg caaggtgcgc tgaggaaggc tgaggagcac 180
ctgtccaccc tacaagctga taccatac tctgaatttc accacagggt ccaggaactt 240
ggctctggaga agggttggg tgattgcgct aagcgtgcac aggagactat 290

<210> 713
<211> 274
<212> DNA
<213> Zea mays

<400> 713

caacaacttt gttcttgagc tggactttga gccattcaat gcctccttcc cccgtccttc 60
tctgtcaaag tccattggca atggcgtgca gttcctcaac aggcacctgt catcaaagct 120
cttccatgac aaggagagca tgtaccctt gctcaacttc cttegcgcgc acaactacaa 180
ggggatgacc atgatgttg aacacagaat ccgcagtctc agtgcctctgc aaggtgcgct 240

gaggaaggct gaagagcacc tgtccaccct acaa 274

<210> 714
 <211> 270
 <212> DNA
 <213> Zea mays

<400> 714

ctgatttcat catcaccagc acattccaag aaatcgcggg aagcaaggac accgtggggc 60
 agtacgagtc ccacatcgcg ttactcttc ctgggctcta cgtgtcgtc catggcatcg 120
 atgttttcga tccaagtgc aacattgtct cccctggagc agacatgagt gtttactacc 180
 cgtatacgga aaccgacaag agactcactg ccttccatcc tgaaatcgag gagtcatca 240
 acagcgacgt cgagaactcc gagcacaagt 270

<210> 715
 <211> 267
 <212> DNA
 <213> Zea mays

<400> 715

gttcctcaac aggcacctgt catcaaagct cttccatgac aaggagagca tgtaccctt 60
 gctcaacttc cttcgcgccc acaactacaa ggggatgacc atgatgttga acgacagaat 120
 ccgcagtctc agtgctctgc aaggtgcgct gaggaaggct gaggagcacc tgtccaccct 180
 acaagctgat accccatact ctgaatttca ccacagggtc caggaacttg gtctggagaa 240
 gggttggggg gattgcgcta agcgtgc 267

<210> 716
 <211> 262
 <212> DNA
 <213> Zea mays

<400> 716

cctaactccg acctctactg gaagaagttt gaggatcact accattcttc gtgccagttc 60
 accactgact tgattgcaat gaaccatgcc gacttcatca tcaccagtac cttccaagag 120
 atcgccggaa acaaggacac cgtcggccag tacgagtcac acatggcggt cacaatgcct 180
 ggctgtacc gcgttgcca cggcattgat gtgttcgacc ccaagttcaa catcgtgtct 240

cctggcgcg accgtgccat ct 262

<210> 717
 <211> 278
 <212> DNA
 <213> Zea mays

<400> 717

gaggatcact accacttctc gtgccagttc accactgact tgattgctat gaaccatgcc 60
 gacttcatca tcaccagtac cttccaagag atcgccggat acaaggacac cgtcggccag 120
 tacgagtcac acatggcggt cacaatgcct ggtctgtacc gcgttgtcca cggcattgat 180
 gtgttcgacc ccaagttcaa catcgtgtct cctggcgcg accgtgccat ctacttccc 240
 tacaccgagt cgcacaagat gctgacctcc cttcaccc 278

<210> 718
 <211> 263
 <212> DNA
 <213> Zea mays

<400> 718

ggtgattgcg ctaagcgtgc acaggagact atccacctcc tcttgacct cctggaggcc 60
 ccagatccgt ccacctgga gaagttcctt ggaacgatcc ccatgggtgtt caatgtcgtt 120
 atcctctccc ctcatgggta cttcgtcaa gctaattgtct tgggttacct tgacaccgga 180
 ggccagggtg tctacatctt ggatcaagtg cgcgctatgg agaacgaaat gctgctgagg 240
 atcaagcagt gtggtcttga cat 263

<210> 719
 <211> 289
 <212> DNA
 <213> Zea mays

<400> 719

acaacctgaa cgggcacatc cgtggtatct ccgcccagat gaaccgcgtc cgcaacggcg 60
 agctgtaccg ctaactctgc gacaccaagg gcgccttcgt gcagcctgca ttctacgagg 120
 ctttcgggct gacggtgggt gaggccatga cctgcggcct gccacgttc gccaccgcct 180
 acggcgatcc ggccgagatc atcgtgcacg gcgtgtcggg ctaccacatc gacccttacc 240

agggcgacaa ggcgtcggcc ctgctcgtgg acttcttcga caagtgcc 289

<210> 720
 <211> 299
 <212> DNA
 <213> Zea mays

<400> 720

caggcacctg tcatcaaagc tcttccatga caaggagagc atgtaccctt tgctcaactt 60
 ccttcgcgcc cacaactaca aggggatgac catgatgttg aacgacagaa tccgcagtct 120
 cagtgtctctg caaggtgctc tgaggaaggc tgaggagcac ctggcaccct acaagctgat 180
 accccatact ctgaatttca ccacaggttc caggaacttg gtctggagaa gggttggggg 240
 gattgcgcta agcgtgcaca ggagactatc cacctcctct tggacctcct ggaggcccc 299

<210> 721
 <211> 308
 <212> DNA
 <213> Zea mays

<400> 721

ctctcagtgc gggctccagc gtatcgagga gaagtacacc tggaagctct actcggagag 60
 gctgatgacc ctcaccggcg tgtacgggtt ctggaagtac gtgtccaacc tggagaggcg 120
 cgagaccggg cggtacctgg agatgctgta cgcgctcaag taccgcacca tggcgagcac 180
 cgtgccgctg gccgtggagg gagagccctc cagcaagtga tgcgcgacgg cggccacaga 240
 cctgatcgat cgatgagcga gagggagcac tcggagtgtc gtgtctttat ccttgccgat 300
 tctttctt 308

<210> 722
 <211> 264
 <212> DNA
 <213> Zea mays

<400> 722

tggctcttgac atcacgccga agatccttat tgtcaccagg ttgctccctg atgcaactgg 60
 caccacctgt ggccagcgcc ttgagaaggc ccttggcacc gagcactgcc atatccttcg 120
 cgtgccattc agaacagaaa acggaatcgt tcgcaagtgg atctcgcgat ttgaagtctg 180

gccgtacctg gagacttaca ctgatgacgt ggcgcatgag attgctggag agcttcaggc 240
 caatcctgac ctgatcatcg gaaa 264

<210> 723
 <211> 259
 <212> DNA
 <213> Zea mays

<400> 723

ctgggattac attcgggtga atgtaagtga gctggctgtg gaggagctga gtgtttctga 60
 gtacttggca ttcaaggaac agctggtgga tggacaatcc aacagcaact ttgtgcttga 120
 gcttgatatt gagcccttca atgcctcctt tcctcgctct tccatgtcga agtcaatcgg 180
 aaatggagtg caattcctta accgacacct gtcgtccaag ttgttccggg acaaggagag 240
 tttgtacccc ttgctgaat 259

<210> 724
 <211> 272
 <212> DNA
 <213> Zea mays

<400> 724

cccacgcgtc cgcctcatcg agcagtacaa cctgaacggg cacatccgct ggatctccgc 60
 ccagatgaac cgcgtccgca acggcgagct gtaccgctac atctgcgaca ccaagggcgc 120
 cttcgtgcag cctgctttct acgaggcttt cgggctgacg gtggttgagg ccatgacctg 180
 cggcctgccc acgtttgcca cagcctacgg cggtcgggcc gagatcatcg tgcacggcgt 240
 gtctggetac cacatcgacc cttaccaggg cg 272

<210> 725
 <211> 264
 <212> DNA
 <213> Zea mays

<400> 725

gaacatgaca ggcctggtcg agatgtacgg caagaacgcg cgcctgaggg agctggcgaa 60
 cctcgtgacg gttgccggtg accacggcaa ggagtccaag gacagggagg agcagggcga 120
 gttcaagaag atgtacagcc tcatcgacga gtacaagttg aagggccata tccggtggat 180

ctcggcgcag atgaaccgcg tccgcaacgg ggagctgtac cgctacattt gcgatacgaa 240
 gggcgcattc gtgcagcctg cgtg 264

<210> 726
 <211> 265
 <212> DNA
 <213> Zea mays

<400> 726

tgagaatggc atcctccgca agtggatctc tcgttttgat gtctggccat acctggagac 60
 atacactgag gatgtttcca gtgaaataat gaaagaaatg caggccaagc ctgaccttat 120
 cattggcaac tacagcgatg gcaacctagt cgccactctg ctcgcacaca agttgggagt 180
 cactcagtgt accatcgctc atgccttggg gaaaaccaa taccccaact cggacatcta 240
 cttggacaag ttcgacagcc agtac 265

<210> 727
 <211> 303
 <212> DNA
 <213> Zea mays

<400> 727

acgagtcaca catggcgctc acaatgcctg gcctgtaccg cgttgccac ggcattgatg 60
 tgttcgaccc caagttcaac atcgtgtctc ctggcgcgga cctgtccatc tacttcccg 120
 acaccgagtc gcacaagagg ctgacctccc ttcacccgga gattgaggag ctctgtaca 180
 gccaaaccga gaacacggag cacaagttcg ttctgaacga caggaacaag ccaatcatct 240
 tctccatggc tcgtctcgac cgtgtgaaga acttgactgg gctggaggag ctgtacggcc 300
 gga 303

<210> 728
 <211> 260
 <212> DNA
 <213> Zea mays

<400> 728

caactacaag gggatgacca tgatgttgaa cgacagaatc cgagttctca gtgctctgca 60
 aggtgcgctg aggaaggctg aggagcacct gtccacccta caagctgata ccccatactc 120

tgaatttcac cacaggttcc aggaacttgg tctggagaag ggttggggtg attgcgctaa 180
gcgtgcacag gagactatcc acctcctctt ggacctcctg gaggccccag atccgtccac 240
cctggagaag ttccttgga 260

<210> 729
<211> 258
<212> DNA
<213> Zea mays

<400> 729

gtaccctaac tccgacctct actggaagaa gtttgaggat cactaccact tctcgtgcca 60
gttcaccact gacttgattg caatgaacca tgccgacttc atcatcacca gtaccttcca 120
agagatcgcc ggaacaagg acaccgtcgg ccagtagcag tcacacatgg cgttcacaat 180
gcctggcctg taccgcgttg tccacggcat tgatgtgttc gacccaagt tcaacatcgt 240
gtctcctggc gcggacct 258

<210> 730
<211> 266
<212> DNA
<213> Zea mays

<400> 730

tgccaacgat cgcgacctgc catggtggcc ctgctgagat catcgtggac ggggtatctg 60
gcctgcacat tgacccttac cacagcgaca aggcgcgga taccctggtc aacttctttg 120
acaaatgcaa ggcagatccg agctactggg acaagatctc acagggcggc ctgcagagaa 180
tttatgagaa gtacacctgg aagctctact ccgagaggct gatgacctg accggcgtgt 240
acgggttctg gaagtacgtg agcaac 266

<210> 731
<211> 293
<212> DNA
<213> Zea mays

<400> 731

gtcgtctgcg gcgacctgg caacccttcc aaggacaagg aggagcaggc cgagttcaag 60
aagatgtttg acctcatcga gcagtacaac ctgaacgggc acatccgctg gatctccgcc 120

cagatgaacc gcgtccgcaa cggcgagctg taccgctaca tctgcgacac caagggcgcc 180
 ttcgtgcagc ctgctttcta cgaggctttc gggctgacgg tggttgagge catgacctgc 240
 ggccctgccca cgtttgccac agcctacggc ggtcggggccg agatcatcgt gca 293

<210> 732
 <211> 265
 <212> DNA
 <213> Zea mays

<400> 732

gcgcgcctga gggagctggc gaacctcgtg atcgtcgccg gtgaccacgg caaggagtcc 60
 aaggacaggg aggagcaggc ggagttcaag aagatgtaca gcctcatcga ctagtacaag 120
 ttgaagggcc atatccggtg gatctcggcg cagatgaacc gcgtccgcaa cggggagctg 180
 taccgctaca tttgcgatac caagggcgca ttcgtgcagc ctgcgttcta cgaagcgttc 240
 ggccctgactg tgatcgagtc catga 265

<210> 733
 <211> 261
 <212> DNA
 <213> Zea mays

<400> 733

ctgagagttc ctgagtacct gcagttcaag gaacagcttg tggaagaagg ccccaacaac 60
 aactttgttc ttgagctgga ctttgagcca ttcaatgcct ctttcccccg tccttctctg 120
 tcaaagtcca ttggcaatgg cgtgcagttc ctcaacaggc acctgtcatc aaagctcttc 180
 catgacaagg agagcatgta ccccttgctc aacttccttc gcgcccacaa ctacaagggg 240
 atgaccatga tgttgaacga c 261

<210> 734
 <211> 272
 <212> DNA
 <213> Zea mays

<400> 734

aggacaccgt ggggcagtac gagtcccaca tcgcgttcac ttttctggg ctctaccgtg 60
 tcgtccatgg catcgatgtt ttogatccca agttcaacat tgtctcccct ggagcagaca 120

tgagtgttta ctaccggtat acggaaacga caagagactc actgccttcc atcctgaaat 180
 cgaggagctc atctacagcg acgtcgagaa ctccgagcac aagtctgtgc tgaaggacaa 240
 gaagaagccg atcatcttct cgatggcgcg tc 272

<210> 735
 <211> 270
 <212> DNA
 <213> Zea mays

<400> 735

atcgtgcacg gcgtgtctgg ctaccacatc gacccttacc agggggacaa ggcgtcggcc 60
 ctgctcgtgg acttcttcga caagtgccag gcggagcgag accactggag caagatctcc 120
 cagggcgggc tccagcgtat cgaggagaag tacacctgga agctgtattc ggagaggctg 180
 atgacctca ccggcgtgta cgggttctgg aagtacgtgt ccaacctgga gaggcgcgag 240
 acccggcggt acctggagat gctgtacgcg 270

<210> 736
 <211> 270
 <212> DNA
 <213> Zea mays

<400> 736

ccctgacacc ggaggccagg ttgtctacat cttggatcaa gtgcgcgctc atggagaacg 60
 aaatgctgct gaggatcaag cagtgtggtc ttgacatcac gccgaagatc cttattgtca 120
 ccaggttgct ccctgatgca actggcacca cctgtggcca gcgccttgag aaggtccttg 180
 gcaccggcac tgccatatcc ttcgcgtgcc attcagaaca gaaaacggaa tcgttcgcaa 240
 gtggatctcg cgatttgaag tctggccgta 270

<210> 737
 <211> 262
 <212> DNA
 <213> Zea mays

<400> 737

agctcatcaa cagcgacgtc gagaactccg agcacaagtt cgtgctgaag gacaagaaga 60
 agccgatcat cttctcgatg gcgcgtctcg accgcgtgaa gaacatgaca ggccctggtg 120

agatgtacgg caagaacgcg cgcctgaggg agctggcgaa cctcgtgata gtcgccggtg 180
accacggcaa ggagtccaag gacagggagg agcaggcgga gttcaagaag atgtacagcc 240
tcacgcacga gtacaagttg aa 262

<210> 738
<211> 262
<212> DNA
<213> Zea mays

<400> 738

aaggagtcca aggacagggg ggagcaggcg gagttcaaga agatgtacag cctcatcgac 60
gagtacaagt tgaagggcca tatccggtgg atctcggcgc agatgaaccg cgtccgcaac 120
ggggagctgt accgctacat ttgcgatacg aagggcgcat tcgtgcagcc tgcgttctac 180
gaagcgttcg gcctgactgt gatcgagtcc atgacgtgcg gtctgccaac gatcgcgacc 240
tgccatggtg gccctgctga ga 262

<210> 739
<211> 262
<212> DNA
<213> Zea mays

<400> 739

ctcgaccttc tggaggcccc tgatcctgcc aacttggaga agttccttgg aactatacca 60
atgatgttta acgttggttat cctgtctcct catggctact tcgccagtc caatgtgctt 120
ggataccctg aactggcgg tcaggttgtg tacattctgg atcaggctcg tgctttggag 180
aatgagatgc ttctgaggat taagcagcaa ggccttgata tcaactccgaa gatcctcatt 240
gttaccaggc tgttgctga tg 262

<210> 740
<211> 264
<212> DNA
<213> Zea mays

<400> 740

gaaaacaaa taccceaact cggacatcta cttggacaag ttcgacagcc agtaccactt 60
ctcttgccag ttcacagctg accttattgc catgaaccac actgatttca tcaccaccag 120

cacattccaa gaaatcgcgg gaagcaagga caccgtgggg cagtacgagt cccacatcgc 180
gttcaactctt cctgggctct accgtgtcgt ccatggcatc gatgttttcg atcccaagtt 240
caacattgtc tcccctggag caga 264

<210> 741
<211> 300
<212> DNA
<213> Zea mays

<400> 741

cccacgcgtc cgcccacgcg tccgcccacg cgtccgatct tctcgatggc gcgtctcgac 60
cgcgtgaaga acatgacagg cctggtggag atgtacggca agaacgcgcg cctgaaggag 120
ctggcgaacc tcgtgatcgt cgccggtgac cacggcaagg agtccaagga cagggaggag 180
caggcggagt tcaagaagat gtacagcctc atcgacgagt acaagttgaa gggccatatc 240
cgggtggatct cggcgcagat gaaccgcgtc cgcaacgggg agctgtaccg ctacatttgc 300

<210> 742
<211> 278
<212> DNA
<213> Zea mays

<400> 742

tgcaattcct taaccgacac ctgtcgtcca agttgttcca ggacaaggag agtttgtacc 60
ccttgcgtgaa cttcctcaag gtcataact acaagggcac gacgatgatg ttgaatgaca 120
gaatccaaag ccttcgtggt ctccaatcat ccctgagaaa ggcagaggag tatctactga 180
gtgttcctca agacactccc tactcggagt tcaaccatag gttccaagag cttggcttgg 240
agaagggttg gggtgacact gcgaacgtgt actcgaca 278

<210> 743
<211> 315
<212> DNA
<213> Zea mays

<220>
<221> unsure
<222> (1)..(315)
<223> unsure at all n locations

<400> 743

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ccatggcgag acaccgtgcc gctggccgtg gacggagagc cctccagcaa gtgatgcgcg 120

acggcggcca cagacctgat cgatcgatga gcgagaggga gcactcggag tgtcgtgtct 180

tttcccttgc catttctttc tttttttccc ttcccggagg cgaaaaaaag agtctgcttt 240

tgctaggcgg cgggcgttcg ttgctgctct ttgcttcaag agttanattt acctaccttg 300

tcaaggtctt gttcc 315

<210> 744

<211> 275

<212> DNA

<213> Zea mays

<400> 744

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tgcacaggag actatccacc tcctcttggga cctcctggag gcccagatc cgtccaccct 120

ggagaagtgc cttggaacga ttcccatggt tttcaatgtc gttatccgct ccctcatgg 180

ttacgtcgct caagctaattg tcttgggtta ccctggcacc ggaggccagg ttgtctacat 240

cttgatcaa gtggcgcgct atggagaacg aaatg 275

<210> 745

<211> 271

<212> DNA

<213> Zea mays

<400> 745

gaggagctga gtgtttctga gtacttggca ttcaaggaac agctgggtgga tggacaatcc 60

aacagcaact ttgtgcttga gcttgatttt gagcccttca atgcctcctt tcctcgctct 120

tccatgtcga agtccatcgg aaatggagtg caattcctta accgacacct gtcgtccaag 180

ttgttccagg acaaggagag tttgtacccc ttgtgaact tcctcaaggc tcataactac 240

aagggcacga cgatgatgtt gaatgacaga a 271

<210> 746

<211> 258

<212> DNA

<213> Zea mays

<400> 746

cggaatcggt cgcaagtgga tctcgcgatt tgacgtctgg ccgtacctgg agacttacac 60
tgatgacgtg gcgcattgaga ttgctggaga gcttcaggcc aatcctgacc tgatcatcgg 120
aaactacagt gacggaaacc ttgttgctg tttgctcgcc cacaagatgg gtgttactca 180
ctgtaccatt gcccatgcgc ttgagaaaac taagtaccct aactccgacc tctactggaa 240
gaagtttgag gatcacta 258

<210> 747

<211> 265

<212> DNA

<213> Zea mays

<400> 747

cgccgaagat ccttattgtc accaggttgc tccctgatgc aactggcacc acctgtggcc 60
agcgccttga gaaggctcctt ggcaccgagc actgccatat ccttcgcgtg ccattcagaa 120
cagaaaacgg aatcgttcgc aagtggatct cgcgatttga agtctggccg tacctggaga 180
cttacctga tgacgtggcg catgagattg ctggagagct tcaggccaat cctgacctga 240
tcatcgga aa ctacagtgc ggaaa 265

<210> 748

<211> 263

<212> DNA

<213> Zea mays

<400> 748

gtcgagaact ccgagcaciaa gttcgtgctg aaggacaaga agaagccgat catcttctcg 60
atggcgcgtc tcgaccgct gaagaacatg acaggcctgg tcgagatgta cggcaagaac 120
gcgcgcctga gggagctggc gaacctcgtg atcgttgccg gtgaccacgg caaggagtcc 180
aaggacaggg aggagcaggc ggagttcaag aagatgtaca gcctcatcga cgagtacaag 240
ttgaagggcc atatccggtg gat 263

<210> 749

<211> 257

<212> DNA

<213> Zea mays

<400> 749

ggacggggta tctggcctgc acattgaccc ttaccacagc gacaaggccg cggatatacct 60
ggtcaacttc tttgacaaat gcaaggcaga tccgagctac tgggacaaga tctcacaggg 120
cggcctgcag agaatttatg agaagtacac ctggaagctc tactccgaga ggctgatgac 180
cctgaccggc gtgtacgggt tctggaagta cgtgagcaac ctggagaggc gcgagaccgc 240
ccgctacatc gagatgt 257

<210> 750

<211> 261

<212> DNA

<213> Zea mays

<400> 750

ccttaccagg gcgacaaggc gtcggccctg ctcgaggact tcttcgacaa gtgccaggcg 60
gacccgagcc actggagcaa gatctcccag ggcgggctcc agcgtatcga ggagaagtac 120
acctggaagc tctactcgga gaggctgatg accctcaccg gcgtgtacgg gttctggaag 180
tacgtgtcca acctggagag gcgcgagacc cggcgggtacc tggagatgct gtacgcgctc 240
aagtaccgca ccatggcgaa c 261

<210> 751

<211> 256

<212> DNA

<213> Zea mays

<400> 751

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acagcctcat cgacgagtac aagttgaagg gccatatccg gtggatctcg gcgcagatga 120
accgcgtccg caacggggag ctgtaccgct acatttacga taccaagggc gcattcgtgc 180
agcctgcgtt ctacgaagcg ttcggcctga ctgtgatcga gtccatgacg tgcggtctgc 240
caacgatcgc gacctg 256

<210> 752

<211> 274

<212> DNA

<213> Zea mays

<400> 752

gaacgaaatg ctgctgagga tcaagcagtg tggctcttgac atcacgccga agatccttat 60
tgtcaccagg ttgctccctg atgcaactgg caccacctgt ggccagcgcc ttgagaaggt 120
ccttggcacc gagcactgcc atatccttcg cgtgccattc agaacagaaa acggaatcgt 180
tcgcaagtgg atctcgcat ttgaagtctg gccgtacctg gagacttaca ctgatgacgt 240
ggcgcatgag attgctggag agcttcaggc caat 274

<210> 753

<211> 274

<212> DNA

<213> Zea mays

<400> 753

cggacggtgg gtcacggaa actacagtga cggaaacctt gttgcgtggt tgctcgccca 60
caagatgggt gttactcact gtaccattgc ccatgcgctt gagaacacta agtaccctaa 120
ctccgacctc tactggaaga agtttgagga tcactaccac ttctcgtgcc agttcaccac 180
tgacttgatt gcaatgaacc atgccgactt catcatcacc agtaccttcc aagagatcgc 240
cggaaacaag gacaccgtcg gccagtacga gtca 274

<210> 754

<211> 263

<212> DNA

<213> Zea mays

<400> 754

ctggagacat aactgagga tgtttccagt gaaataatga aagaaatgca ggccaagcct 60
gaccttatca ttggcaacta cagcgatggc aagctagtcg ccactctgct cgcacacaag 120
ttgggagtca ctcaagtgtac catcgctcat gccttggaga aaaccaaata ccccaactcg 180
gacatctact tggacaagtt cgacagccag taccatttct cttgccagtt cacagctgac 240
cttattgcca tgaaccacac tga 263

<210> 755

<211> 274

<212> DNA

<213> Zea mays

<400> 755

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gccaatcatc ttctccatgg ctctgtctga ccgtgtgaag aacttgactg ggctgggtgga 120
gctgtacggc cggaacaagc ggctgcagga gctgggtgtac ctctgggtcg tctgcggcga 180
ccatggcaac ccttccgagg acaaggatga tcaggccgag ttcatgaaga tgtttgacct 240
cgtcgagcag tacaacctga acgggcacat ccgc 274

<210> 756

<211> 256

<212> DNA

<213> Zea mays

<400> 756

tcgagatgta cggcaagaac gcgcgcctga gggagctggc gaacctcgtg atcgttgccg 60
gtgaccacgg caaggagtcc aaggacaggg aggagcaggc ggagttcaag aagatgtaca 120
gcctcatcga cgagtacaag ttgaagggcc atatccggtg gatctcggcg cagatgaacc 180
gcgtccgcaa cggggagctg taccgctaca tttgcgatac gaagggcgca ttcgtgcagc 240
ctgcgttcta cgaagc 256

<210> 757

<211> 261

<212> DNA

<213> Zea mays

<400> 757

catctacagc gacgtcgaga actccgagca caagttcgtg ctgaaggaca agaagaagcc 60
gatcatcttc tcgatggcgc gtctcgaccg cgtgaagaac atgacaggcc tggtcgagat 120
gtacggcaag aacgcgcgcc tgaggagct ggcgaacctc gtgatcgttg ccggtgacca 180
cggcaaggag tccaaggaca gggaggagca ggcggagtgc aagaagatgt acagcctcat 240
cgacgagtac aagttgaagg g 261

<210> 758

<211> 252

<212> DNA

<213> Zea mays

<400> 758

cttccttcgc gccacaact acaaggggat gaccatgatg ttgaacgaca gaatccgcag 60
tctcagtgct ctgcaaggtg cgctgaggaa ggctgaggag cacctgtcca ccctacaagc 120
tgatacccca tactctgaat ttcaccacag gttccaggaa cttgggtctgg agaagggttg 180
gggtgattgc gctaagcgtg cacaggagac tatccacctc ctcttggaac tcctggaggc 240
cccagatccg tc 252

<210> 759

<211> 279

<212> DNA

<213> Zea mays

<400> 759

cccacgcgtc cgcccacgcg tccgcctgc tegtggactt ctcgacaag tgccaggcgg 60
agcgagccac tggagcaaga tctcccaggg cgggctccag cgtatcgagg agaagtacac 120
ctggaagctg tactcggaga ggctgatgac cctcaccggc gtgtacgggt tctggaagta 180
cgtgtccaac ctggagaggc gcgagacccg gcggtacctg gagatgctgt acgcgctcaa 240
gtaccgcacc atggcgagca ccgtgccgct ggccgtgga 279

<210> 760

<211> 254

<212> DNA

<213> Zea mays

<400> 760

ggtggagctg tacggccgga acaagcggct gcaggagctg gtgaacctcg tggctcgtctg 60
cggcgaccat ggcaaccctt ccaaggacaa ggaggagcag gccgagttca agaagatgtt 120
tgacctcatc gagcagtaca acctgaacgg gcacatccgc tggatctccg cccagatgaa 180
ccgcgtccgc aacggcgagc tgtaccgcta catctgcgac accaagggcg ccttcgtgca 240
gcctgctttc tacg 254

<210> 761

<211> 272

<212> DNA

<213> Zea mays

<400> 761

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ggagacttac actgatgacg tggcgcatga gattgctgga gagcttcagg ccaatcctga 60
cctgatcatc ggaaactaca gtgacggaaa ccttggtgcg tgtttgctcg cccacaagat 120
gggtgttact cactgtgcca gtgcgcatgc gcctgagaaa actaagtacc ctaactccga 180
cctctactgg aagaagtttg aggatcacta ccacttctcg tgccagttca ccactgactt 240
gattgcaatg aaccatgccg acttcatcat ca 272
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<210> 762

<211> 287

<212> DNA

<213> Zea mays

<400> 762

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atcgtgcacg gcgtgtctgg ctaccacatc gacccttacc agggcgacaa ggcgtcggcc 60
ctgctcgtgg acttcttcga caagtgccag gcggaccgag ccactggagc aagatctccc 120
agggcgggct ccagcgtatc gaggagaagt acacctggaa gctgtactcg gagaggctga 180
tgaccctcac cggcgtgtac gggttctgga agtacgtgtc caacctggag aggcgcgaga 240
cccggcggta cctggagatg ctgtacgcgc tcaagtaccg caccatg 287
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<210> 763

<211> 307

<212> DNA

<213> Zea mays

<220>

<221> unsure

<222> (1)..(307)

<223> unsure at all n locations

<400> 763

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gaccctcaac ggcgtgtacg ggttctggaa gtacgtgtcc aacctggaga ggcgcgagac 120
ccggcgggtac ctggagatgc tgtacgcgct caagtaccgc accatggcga gcaccgtgcc 180
gctggccgtg gagggagagc ctccagcaag tgatgcgtga cggcggccac agacctgac 240
gatcgatgag cgagagggag cactcggagt gtcgtgtctt ttcncttgcc atttctttct 300
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ttctttct

307

<210> 764
<211> 255
<212> DNA
<213> Zea mays

<400> 764

gacaccgtgg ggcagtacga gtcccacatc gcgttcactc ttcttgggct ctaccgtgtc 60
gtccatggca tcgatgtttt cgatcccaag ttcaacattg tctcccctgg agcagacatg 120
agtgtttact acccgtatac ggaaaccgac aagagactca ctgccttcca tcctgaaatc 180
gaggagctca tctacagcga cgtcgagaac tccgagcaca agttcgtgct gaaggacaag 240
aagaagccga tcac 255

<210> 765
<211> 250
<212> DNA
<213> Zea mays

<400> 765

gtggagctgt acggccggaa caagcggctg caggagctgg tgaacctcgt ggtcgtctgc 60
ggcgaccatg gcaacccttc caaggacaag gaggagcagg ccgagttcaa gaagatgttt 120
gacctcatcg agcagtacaa cctgaacggg cacatccgct ggatctccgc ccagatgaaa 180
cgcgtccgca acggcgagct gtaccgctac atctgcgaca ccaagggcgc cttcgtgcag 240
cctgctttct 250

<210> 766
<211> 251
<212> DNA
<213> Zea mays

<400> 766

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tatctggcct gcacattgac ccttaccaca gcgacaaggc cgcggatata ctggtcaact 120
tctttgacaa atgcaaggca gatccgagct actgggacaa gatctcacag ggcggcctgc 180
agagaattta tgagaagtac acctggaagc tctactccga gaggctgatg accctgaccg 240

gcgtgtacgg g 251

<210> 767
<211> 255
<212> DNA
<213> Zea mays

<400> 767

gcgggaagca aggacaccgt ggggcagtag gagtcccaca tcgcgttcac tcttcctggg 60
ctctaccgtg tcgtccatgg catcgatgtt ttogatccca agttcaacat tgtctcccct 120
ggagcagaca tgagtgttta ctaccgtat acggaaaccg acaagagact cactgccttc 180
catcctgaaa tcgaggagct catctacagc gacgtcgaga actccgagca caagttcgtg 240
ctgaaggaca agaag 255

<210> 768
<211> 297
<212> DNA
<213> Zea mays

<400> 768

cttctttgac aaatgcaagg cagatccgag ctactgggac aagatctcac agggcggcct 60
gcagagaatc tatgagaagt acacctggaa gctctactcc gagaggctga tgaccctgac 120
cggcgtgtac gggttctgga agtacgtgag caacctggag aggcgcgaga cccgccgcta 180
catcgagatg ttctacgcc tgaagtaccg tagcctggca agccaggttc cgctgtcctt 240
cgattagtag ggggaaagaa gaagaagaag aagcccaggc cggagaacca tcgcctg 297

<210> 769
<211> 265
<212> DNA
<213> Zea mays

<400> 769

cccacgcgtc cggatgcttc tgaggattaa gcagcaaggc cttgatata ctccgaagat 60
cctcattggt accaggctgt tgccatgatc tgctgggact acgtgcggtc agcggctgga 120
gaaggtcatt ggtactgagc acacagacat cattcgcgtt cccttcagaa atgagaatgg 180
catcctccgc aagtggatct ctcgttttga tgtctggcca tacctggaga catacactga 240

ggatgtttcc agtgaaataa tgaaa 265

<210> 770
 <211> 257
 <212> DNA
 <213> Zea mays

<400> 770

caactacaag gggatgacca tgatgttgaa cgacagaatc cgcagtctca gtgctctgca 60
 aggtgcgctg aggaaggctg aggagcacct gtccacccta caagctgata cccatactc 120
 tgaatttcac cacaggttcc aggaacttgg tctggagaag ggttggggtg attgcgctaa 180
 gcgtgcacag gagactatcc acctcctctt ggacctcctg gaggccccag atccgtccac 240
 ccggagaagt tcttgga 257

<210> 771
 <211> 247
 <212> DNA
 <213> Zea mays

<400> 771

atgtaagtga gctggctgtg gaggagctga gtgtttctga gtacttggca ttcaaggaac 60
 agctgggtgga tggacaatcc aacagcaact ttgtgcttga gcttgatttt gagcccttca 120
 atgcctcctt tctcgtcct tccatgtcga agtccatcgg aaatggagtg caattcctta 180
 accgacacct gtcgtccaag ttgttccagg acaaggagag tttgtacccc ttgctgaact 240
 tctctaa 247

<210> 772
 <211> 270
 <212> DNA
 <213> Zea mays

<400> 772

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 cgcgccca actacaagg gatgaccatg atgttgaacg acagaatccg cagtctcagt 120
 gctctgcaag gtgcgctgag gaaggctgag gagcacctgt ccacctaca agctgatacc 180
 ccatactctg aatttcacca caggttccag gaacttggtc tggagaaggg ttggggtgat 240

tgcgctaagc gtgcacagga gactatccac 270

<210> 773
<211> 268
<212> DNA
<213> Zea mays

<400> 773

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cctgctttct acgaggcttt cgggctgacg gtggttgagg ccatgacctg cggcctgccc 120
acgtttgccca cagcctacgg cggtcgggcc gagatcatcg tgcacggcgt gtctggctac 180
cacatcgacc cttaccaggg cgacaaggcg tcggccctgc tcgtggactt cttcgacaag 240
tgccaggcgg acccgagcca ctggagca 268

<210> 774
<211> 246
<212> DNA
<213> Zea mays

<400> 774

cctgcacatt gacccttacc acagcgacaa ggccgcggat atcctggtca acttctttga 60
caaatgcaag gcagatccga gctactggga caagatctca cagggcggcc tgcagagaat 120
ttatgagaag tacacctgga agctctactc cgagaggctg atgacctga ccggcgtgta 180
cgggtttctgg aagtacgtga gcacctgga gaggcgcgag acccgccgct acatcgagat 240
gttcta 246

<210> 775
<211> 277
<212> DNA
<213> Zea mays

<400> 775

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ttggtctgga gaagggttgg ggtgatagcg ctaagcgagc acaggagact atccacctcc 120
tcttggaact cctggaggcc ccagatccgt ccacctgga gaagttcctt ggaacgatcc 180
ccatggtggt caatgtcggt atcctctccc ctcatggtta cttcgctcaa gctaagtctc 240

tggggttacct tgacaccgga ggccagggtg tctacat 277

<210> 776
<211> 248
<212> DNA
<213> Zea mays

<400> 776

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tattgtcacc aggttgctcc ctgatgcaac tggcaccacc tgtggccagc gccttgagaa 120
ggtccttggc accgagcact gccatatacct tcgcgtgcca ttcagaacag aaaacggaat 180
cgttcgcaag tggatctcgc gatttgaagt ctggccgtac ctggagactt aactgatga 240
cgtggcgc 248

<210> 777
<211> 251
<212> DNA
<213> Zea mays

<400> 777

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tgtaccgcgt tgtccacggc attgatgtgt tcgaccccaa gttcaacatc gtgtctcctg 120
gcgcggacct gtccatctac ttcccgtaca ccgagtcgca caagaggctg acctcccttc 180
accgggagat tgaggagctc ctgtacagcc aaaccgagaa cacggagcac aagttcgttc 240
tgaacgacag g 251

<210> 778
<211> 283
<212> DNA
<213> Zea mays

<400> 778

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gtcttgttcc atcattgac cgggtgtcgc ttttagtagt ctgatggact gttagtagtt 120
tgcgttgctg cggttgagag ggaacggtgg tgggtgggtgt gtgtgtgcag tcgggtgtgg 180
tgcctccctt gtttctgga tgggatgttg ctccctgaat aataatcgta gtggccttgg 240

agcccttttc ctgaaataag agcagcatcc tagtgcttca ctt 283

<210> 779
<211> 288
<212> DNA
<213> Zea mays

<400> 779

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ttgcccattgc gcttgagaaa actaagtacc ctaactccga cctctactgg aagaagtttg 120
aggatcacta ccacttctcg tgccagttca ccactgactt gattgcaatg aaccatgccg 180
acttcatcat caccagtacc ttccaagaga tcgccggaaa caaggacacc gtcggccagt 240
acgagtcaca catggcgctt acaatgcctg gcctgtaccg cgttgtcc 288

<210> 780
<211> 244
<212> DNA
<213> Zea mays

<400> 780

ccttcacccg gagattgagg agctcctgta cagccaaacc gagaacacgg agcacaagtt 60
cgttctgaac gacaggaaca agccaatcat cttctccatg gctcgtctcg accgtgtgaa 120
gaacttgact gggctgggtg agctgtacgg ccggaacaag cggctgcagg agctggtgaa 180
cctcgtggtc gtctgcgggc accatggcaa cccttccaag gacaaggagg agcaggccga 240
gttc 244

<210> 781
<211> 247
<212> DNA
<213> Zea mays

<400> 781

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tcgacgagta caagttgaag ggccatatcc ggtggatctc ggcgagatg aaccgcgtcc 120
gcaacgggga gctgtaccgc tacatttgcg ataccaaggg cgcattcgtg cagcctgcgt 180
tctacgaagc gttcggcctg actgtgatcg agtccatgac gtgcggtctg ccaacgatcg 240

cgacctg 247

<210> 782
<211> 261
<212> DNA
<213> Zea mays

<400> 782

tgcgttctac gaagcgttcg gcctgactgt gatcgagtcc atgacgtgcg gtctgccaac 60
gatcgcgacc tgccatggtg gccctgctga gatcatcgtg gacggggat ctggcctgca 120
cattgaccct taccacagcg acaaggccgc ggatatcctg gtcaacttct ttgacaaatg 180
caaggcagat ccgagctact gggacaagat ctacagggc ggctgcaga gaatttatga 240
gaagtacacc tggaagctct a 261

<210> 783
<211> 257
<212> DNA
<213> Zea mays

<400> 783

ccgcgtccgc aacggcgagc tgtaccgcta catctgcgac accaagggcg ccttcgtgca 60
gcctgctttc tacgaggctt tcgggctgac ggtggttgag gccatgacct gcggcctgcc 120
cacgtttgcc acagcctacg gcggtccggc cgagatcatc gtgcacggcg tgtctggcta 180
ccacatcgac ccttaccagg gcgacaaggc gtcggccctg ctctgggact tcttcgacaa 240
gtgccaggcg gacccga 257

<210> 784
<211> 251
<212> DNA
<213> Zea mays

<400> 784

gacaagaaga agccgatcat cttctcgatg gcgcgtctcg accgcgtgaa gaacatgaca 60
ggcctggtgg agatgtacgg caagaacgcg cgcctgaggg agctggcgaa cctcgtgatc 120
gtcgccggtg accacggcaa ggagtccaag gacagggagg agcaggcgga gttcaagaag 180
atgtacagcc tcatcgacga gtacaagttg aagggccata tccggtggat ctcggcgcag 240

atgaaccgcg t

251

<210> 785

<211> 290

<212> DNA

<213> Zea mays

<400> 785

ggaagtacgt gagcaacctg gagaggcgcg agaccgcgcg ctacatcgag atgttctacg 60

ccctgaagta ccgtagcctg gcaagccagg ttccgctgtc cttcgattag tacggggaaa 120

gaagaagaag aagaagccca ggccgctatt ttatcgcttg catttcgacg tgtttcaccg 180

caattcgcat tgtagtcgt gtattggagt tatgtgtact tggtttccaa gaactttagt 240

tccttctcgt tttttttcct tgtttgagcg tttttgggca gcgctggcct 290

<210> 786

<211> 311

<212> DNA

<213> Zea mays

<400> 786

cggacgcgtg gcgcgacgcg tgggctgcca acttgagaa gttccttgga actataccaa 60

tgatgttcaa tgttggtatc cttactcctc atggcagatt tcgctcagtc caatgtgctt 120

ggataccctg acactggcgg tcagggttggtg tacattctgg atcaagtccg tgctttggag 180

aatgagatgc ttctgaggat taagcagcaa ggccttgata tcactccgaa gatcctcatt 240

gttaccaggc tgttgctga tgctgctggg actacgtgcg gtcagcggct ggagaaggct 300

attggtactg a 311

<210> 787

<211> 258

<212> DNA

<213> Zea mays

<400> 787

cttgattttg agcccttcaa tgcctccttt cctcgtcctt ccattgtcgaa gtccatcgga 60

aatggagtgc aattccttaa ccgacacctg tcgtccaagt tgttccagga caaggagagt 120

ttgtaccctt tgctgaactt cctcaaggct cataactaca agggcacgac gatgatgttg 180

aatgacagaa tccaaagcct tcgtggtctc caatcatccc tgagaaaggc agaggagtat 240
 ctactgagtg ttcctcaa 258

<210> 788
 <211> 244
 <212> DNA
 <213> Zea mays

<400> 788

atgagtgttt actaccgta tacggaaacc gacaagagac tcaactgcctt ccatcctgaa 60
 atcgaggagc tcatctacag cgacgtcgag aactccgagc acaagttcgt gctgaaggac 120
 aagaagaagc cgatcatctt ctcgatggcg cgtctcgacc gcgtgaagaa catgacaggc 180
 ctgggtcgaga tgtacggcaa gaacgcgcgc ctgagggagc tggcgaacct cgtgatcgtt 240
 gccg 244

<210> 789
 <211> 270
 <212> DNA
 <213> Zea mays

<400> 789

cggacgcgtg ggcggacgcg tgggtgcggc gaccatggca acccttccaa ggacaaggag 60
 gagcaggccg agttcaagaa gatgtatgac ctcatcgagc agtacaacct gaacggggcac 120
 atccgctgga tctccgcca gatgaaccgc gtccgcaacg gcgagctgta ccgctacatc 180
 tgcgacacca agggcgcctt cgtgcagcct gctttctacg aggccttcgg gctgacgggtg 240
 gttgaggcca tgacctgcgg cctgcccacg 270

<210> 790
 <211> 274
 <212> DNA
 <213> Zea mays

<220>
 <221> unsure
 <222> (1)..(274)
 <223> unsure at all n locations
 <400> 790

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 gatgagcgag agggagcact cggagtgtcg tgtcttttcc cttgccannn nnnnnnnnnn 180
 nnnnnntcct tcccggaggc gaaaaaaaaa gagtctgctt ttgctaggcg gcgggcgttc 240
 gttgctgctc tttgcttcaa gagttaaatt tacc 274

<210> 791
 <211> 256
 <212> DNA
 <213> Zea mays

<400> 791

cccacgcgtc cggccaaacc gagaacacgg agcacaagtt cgttctgaac gacaggaaca 60
 agccaatcat cttctccatg gctcgtctcg accgtgtgaa gaacttgact gggctggtgg 120
 agctgtacgg ccggaacaag cggctgcagg agctggtgaa cctcgtggtc gtctgcggcg 180
 accatggcaa cccttccaag gacaaggagg agcaggccga gttcaagaag atgtttgacc 240
 tcatcgagca gtacaa 256

<210> 792
 <211> 287
 <212> DNA
 <213> Zea mays

<400> 792

tgcggtacct ggagatgctg tacgcgtca agtaccgcac catggcgagc accgtgccgc 60
 tggcgtgga gggagagccc tccagcaagt gatgcgtgac ggcggccaca gacctgatcg 120
 atcgatgagc gagagggagc actcggagtg tcgtgtcttt tcccttgcca tttctttctt 180
 tcttcttttt ccttcccga ggogaaaaaa aaagagtctg cttttgctag gcggcgggcg 240
 ttcgttgctg ctctttgctt caagagttaa atttacctac cttgtca 287

<210> 793
 <211> 244
 <212> DNA
 <213> Zea mays

<400> 793

caccgagcac tgccatatcc ttcgcgtgcc attcagaaca gaaaacggaa tcgttcgcaa 60
 gtggatctcg cgatttgaag tctggccgta cctggagact tacactgatg acgtggcgca 120
 tgagattgct ggagagcttc aggccaatcc tgacctgatc atcggaact acagtgcg 180
 aaaccttggt gcgtgtttgc tcgcccacaa gatgggtgtt actcactgta ccattgccca 240
 tgcg 244

<210> 794
 <211> 244
 <212> DNA
 <213> Zea mays

<400> 794

caccacctgt ggccagcgcc ttgagaaggt ccttggcacc gagcactgcc atatccttcg 60
 cgtgccattc agaacagaaa acggaatcgt tcgcaagtgg atctcgcgat ttgaagtctg 120
 gccgtacctg gagacttaca ctgatgacgt ggcgcatgag attgctggag agcttcaggc 180
 caatcctgac ctgatcatcg gaaactacag tgacggaaac cttgttgctg gtttgctcgc 240
 ccac 244

<210> 795
 <211> 282
 <212> DNA
 <213> Zea mays

<220>
 <221> unsure
 <222> (1)..(282)
 <223> unsure at all n locations

<400> 795

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 cgccggaaac aaggacaccg tcggccagta cgagtcacac atggcggttca caatgcctgg 120
 cctgtaccgc gttgtccacg gcattgatgt gttcgacccc aagttcaaca tcgtgtctcc 180
 tggcgcggaac ctgtccatct acttcccgtg caccgagtcg cacaagaggc tgacctcctt 240
 tcnccggggg ttnggggncc tttaatncnn ncgnggnntg ng 282

<210> 796
 <211> 249

<212> DNA
 <213> Zea mays
 <400> 796
 gacaagaaga agccgatcat cttctcgatg gcgcgtctcg accgcgtgaa gaacatgaca 60
 ggcttggtgg agatgtacgg caagaacgcg cgcctgaggg agctggcgaa cctcgtgata 120
 gtgcgccgtg accacggcaa ggagtccaag gacagggagg agcaggcgga gttcaagaag 180
 atgtacagcc tcatcgacga gtacaagttg aagggccata tccggtggat ctgcggcgag 240
 atgaaccgc 249

<210> 797
 <211> 248
 <212> DNA
 <213> Zea mays
 <400> 797
 gttatccttt ctctcatgg ctacttcgct cagtccaatg tgcttggata ccctgacact 60
 ggcggtcagg ttgtgtacat tctggatcaa gtccgtgctt tggagaatga gatgcttctg 120
 aggattaagc agcaaggcct tgatatcact ccgaagatcc tcattgttac caggctgttg 180
 cctgatgctg ctgggactac gtgcggtcag cggctggaga aggtcattgg tactgagcac 240
 acagacat 248

<210> 798
 <211> 295
 <212> DNA
 <213> Zea mays
 <400> 798
 ggcgagctgt accgctacat ctgcgacacc aaggccgcct tcgtgcagcc tgctttctac 60
 gaggcttttcg ggctgacggg ggttgaggcc atgacctgcg gcctgcccac gtttgccaca 120
 gcctacggcg gtccggccga gatcatcgtg cacggcgtgt cggctaccac atcgaccctt 180
 accagggcga caaggcgtcg gccctgctcg tggacttctt cgacaagtgc caggcggacc 240
 cgagccactg gagcaagatc tcccagggcg ggctccagcg tatcgaggag aagta 295

<210> 799
 <211> 255

<212> DNA
 <213> Zea mays

 <220>
 <221> unsure
 <222> (1)..(255)
 <223> unsure at all n locations

 <400> 799

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 ccagatgaac cgcgtccgca acggcgagct gtaccgctac atctgcgaca ccaagggcgc 120
 ctctgtgcag cctgctttct acgaggcttt cgggctgacg gtggttgagg ccatgacctg 180
 cggcctgccc acgttcgcca ccgcctacgg cgtccggccc agatcatcgt gcacggcgtg 240
 tctggctacc acatc 255

<210> 800
 <211> 244
 <212> DNA
 <213> Zea mays

 <400> 800

 cctgaacggg cacatccgct ggatctccgc ccagatgaac cgcgtccgca acggcgagct 60
 gtaccgctac atctgcgaca ccaagggcgc ctctgtgcag cctgctttct acgaggcttt 120
 cgggctgacg gtggttgagg ccatgacctg cggcctgccc acgtttgcca cagcctacgg 180
 cgggtccggcc gagatcatcg tgcacggcgt gtctggctac cacatcgacc cttaccaggg 240
 cgac 244

<210> 801
 <211> 238
 <212> DNA
 <213> Zea mays

 <400> 801

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 ctaagtaccc taactccgac ctctactgga agaagtttga ggatcactac cacttctcgt 120
 gccagttcac cactgacttg attgcaatga accatgccga cttcatcatc accagtacct 180
 tccaagagat cgccggaaac aaggacaccg tcggccagta cgagtcacac atggcggtt 238

<210> 802
 <211> 256
 <212> DNA
 <213> Zea mays

 <400> 802

 ggaccggggcc ttaccagggc gacaaggcgt cggccctgct cgtggacttc ttcgacaagt 60
 actcaggcgg acccgagcca ctggagcaag atctcccagg gcgggctcca gcgtatcgag 120
 gagaagtaca cctggaagct ctactcggag aggetgatga ccctcaccgg cgtgtacggg 180
 ttctggaagt acgtgtccaa cctggagagg cgcgagaccc ggcggtacct ggagatgctg 240
 tacgcgctca agtacc 256

<210> 803
 <211> 252
 <212> DNA
 <213> Zea mays

 <400> 803

 aacctagtcg ccactctgct cgcgcacaag ttgggagtca ctcagtgtac catcgctcat 60
 gccttggaaga aaaccaaata cccaactcg gacatatact tggacaaatt cgacagccag 120
 taccacttct cttgccagtt ccagctgacc ttattgccat gaaccacacc gatttcatca 180
 tcaccagcac attccatgaa atcgcgggaa gcaaggacac cgtggggcag tacgagtcac 240
 acatcgctt ca 252

<210> 804
 <211> 287
 <212> DNA
 <213> Zea mays

 <400> 804

 atgcatgctc gcgcacaaga tgggtgttac tcaactgtacc attgcccattg cgcttgagaa 60
 aactaagtac cctaactccg acctctactg gaagaagttt gaggatcact accacatctc 120
 gtgccagttc accactgact tgattgcaat gaaccatgcc gacttcatca tcaccagtac 180
 cttccagaga tcgccggtaa caaggacacc gtcggccagt acgagtcaca catggcgctc 240
 acaatgcctg gactgtaccg cgttgtcgac ggcattgatg tgttcga 287

<210> 805
 <211> 287
 <212> DNA
 <213> Zea mays

<400> 805

ggacgctggg aaaaaaaga gtctgctttt gctaggcggc gggcgttcgt tgctgctctt 60
 tgattcaaga gttaaattta cctaccttgt caaggtcttg ttccatcatt gatccgggtg 120
 tcgcttttag tagtctgatg gactgttagt agtttgcgtt gcgtcggttg agaggggaacg 180
 gtggtggtgg tgggtgtgtg gcagtcgggt gtggtgctcc ctttgtttcc tggatgggat 240
 gttgctcctt gaataataat cgtagtggcc ttggagccct tttcctg 287

<210> 806
 <211> 276
 <212> DNA
 <213> Zea mays

<400> 806

gtctgctttt gctaggcggc gggcgttcgt tgctgctctt tgcttcaaga gttaaattta 60
 cctaccttgt caaggtcttg ttccatcatt gatccgggtg tcgcttttag tagtctgatg 120
 gactgttagt agtttgcgtt gcgtcggttg agaggggaacg gtggtggtgg tgggtgtgtg 180
 gcagtcgggt gtggtgctcc ctttgtttcc tggatgggat gttgctcctt gaataataat 240
 cgtagtggcc ttggagccct tttcctgaaa taagag 276

<210> 807
 <211> 254
 <212> DNA
 <213> Zea mays

<400> 807

gaccggcggt tacctggaga tgctgtacgc gctcaagtac cgcaacatgg cgagcacagt 60
 gccgctggcc gtggaggag agccctccag caagtgatgc gtgacggcgg ccacagacct 120
 gatcgatcga tgagcgagag ggagcactcg gagtgtcgtg tcttttccct tgccattact 180
 ttctttcttc ttttcttc ccgaggcga aaaaaaaga gtctgctttt gctaggcggc 240
 gggcgttcgt tgct 254

<210> 808
 <211> 321
 <212> DNA
 <213> Zea mays

<400> 808

acggaccgcc aggggtccgcg acctgcgagt ggctacggag gccgaggttg tctacatctt 60
 ggatcaagtg cgcgctatgg agagccgaaa tgctgctgag gatcaagcag tgtgggtcttg 120
 acatcacgcc gaagatcctt attgtcacca ggttgctccc tgatgcaact ggcaccacct 180
 gtggccagcg ccttgagaag gtccttggca ccgagcactg ccatatcctt cgcgtgccat 240
 gtcagaacag aaaacggaat cgttcgcaag tggatctcgc gatttgaagt cgtgccgtac 300
 ctggagactt aactgatga c 321

<210> 809
 <211> 273
 <212> DNA
 <213> Zea mays

<400> 809

acgggttctg gaagtacgtg tccaacctgg agaggcgca gaccggcgcg tacctggaga 60
 tgctgtacgc gctcaagtac cgcaccatgg cgagcaccgt gccgctggcc gtggaggag 120
 agccctccag caagtgatgc gcgacggcgg ccacagacct gatcgatcga tgagcgagat 180
 ggagcactcg gagtgtcgtg tcttttcct tgccatttct ttcttttttt cccttcccg 240
 aggcgaaaaa aagagtctgc ttttgctagg cgg 273

<210> 810
 <211> 241
 <212> DNA
 <213> Zea mays

<400> 810

gatcgagtcc atgacgtgcg gtctgccaac gatcgcgacc tgccatggtg gccctgctga 60
 gatcatcgtg gacggggtat ctggcctgca cattgaccct taccacagcg acaaggccgc 120
 ggatatcctg gtcaacttct ttgacaaatg caaggcagat ccgagctact gggacaagat 180
 ctcacagggc ggctgcaga gaatttatga gaagtacacc tggaagctct actccgagag 240

<210> 811
 <211> 235
 <212> DNA
 <213> Zea mays

<400> 811

acggaaaccg acaagagact cactgccttc catcctgaaa tcgaggagct catctacagc 60
 gacgtcgaga actccgagca caagtctgtg ctgaaggaca agaagaagcc gatcatcttc 120
 tcgatggcgc gtctcgaccg cgtgaagaac atgacaggcc tggtcgagat gtacggcaag 180
 aacgcgcgcc tgagggagct ggcgaacctc gtgatcgttg ccggtgacca cggca 235

<210> 812
 <211> 242
 <212> DNA
 <213> Zea mays

<400> 812

tgacctgcgg cctgcccacg tttgccacag cctacggcgg tccggccgag atcatcgtgc 60
 acggcgtgtc tggctaccac atcgaccctt accagggcga caaggcgtcg gccctgctcg 120
 tggacttctt cgacaagtgc caggcggacc cgagccactg gagcaagatc tcccagggcg 180
 ggctccagcg tatcgaggag aagtacacct ggaagctcta ctcgagagg ctgatgaccc 240
 tc 242

<210> 813
 <211> 240
 <212> DNA
 <213> Zea mays

<400> 813

gggcgcattc gtgcagcctg cgttctacga agcgttcggc ctgactgtga tcgagtccat 60
 gacgtgcggt ctgccaacga tcgcgacctg ccatggtggc cctgctgaga tcatcgtgga 120
 cggggtatct ggctgcaca ttgaccctta ccacagcgac aaggccgcgg atatcctggt 180
 caacttcttt gacaaatgca aggcagatcc gagctactgg gacaagatct cacagggcgg 240

<210> 814

<211> 244
 <212> DNA
 <213> Zea mays

 <400> 814

 ggtggatctc ggcgcagatg aaccgcgtcc gcaacgggga gctgtaccgc tacatttgcg 60
 atacgaaggc cgcattcgtg cagcctgcgt tctacgaagc gttcggcctg actgtgatcg 120
 agtccatgac gtgcggctctg ccaacgatcg cgacctgcca tggcggccct gctgagatca 180
 tcgtggacgg ggtatctggc ctgcacattg acccttacca cagcgacaag gccgcggata 240
 tcct 244

<210> 815
 <211> 237
 <212> DNA
 <213> Zea mays

 <400> 815

 caggccaatc ctgacctgat catcggaac tacagtgcgc gaaaccttgt tgcgtgtttg 60
 ctgccccaca agatgggtgt tactcactgt accattgccc atgcgcttga gaaaactaag 120
 taccctaact ccgacctcta ctggaagaag tttgaggatc actaccactt ctcgtgccag 180
 ttcaccactg acttgattgc aatgaaccat gccgacttca tcatcaccag taccttc 237

<210> 816
 <211> 239
 <212> DNA
 <213> Zea mays

 <400> 816

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 ttctggatca ggtccgtgct ttggagaatg agatgcttct gaggattaag cagcaaggcc 120
 ttgatatac tccgaagatc ctcatgttta ccaggctgtt gcctgatgct gctgggacta 180
 cgtgcgggtca gcggctggag aaggctcattg gtactgagca cacagacatc attcgcgtt 239

<210> 817
 <211> 263
 <212> DNA
 <213> Zea mays

<400> 817

acaagcctga ccttatcatt ggcaactaca gcgatggcaa cctagtcgcc actctgctcg 60

cacacaagtt gggagtcact cagtgtacca tcgctcatgc cttggagaaa accaaatacc 120

ccaactcgga catctacttg gacaagttcg acagccagta ccacttctct tgccagttca 180

catgtgacct tattgccatg aaccacactg atttcatcat caccagcaca tccctcaaat 240

tcgcgggaag caaggacacc gtg 263

<210> 818

<211> 271

<212> DNA

<213> Zea mays

<400> 818

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aatttaccta ccttgtcaag gtcttggtcc atcattgatc cgggtgctgc ttttagtagt 120

ctgatggact gttagtagtt tgcgttgctc cggttgagag ggaacggtgg tgggtggtgg 180

gtgtgtgcag tcgggtgtgg tgcctccttt gtttcctgga tgggatgttg ctccttgaat 240

aataatcgta gtggccttgg agcccttttc c 271

<210> 819

<211> 366

<212> DNA

<213> Zea mays

<400> 819

agcttatcta gcttagctaa gtcggaattc gagtcgagcc taagttcaac attgtctctc 60

ctggagcaga catgtagtgt ttatcatctt atacggtaat cgataagaga ctcaactgagt 120

ttcaacctga catcgagaac gtcacaaaca gcgacgtcga gaactccgag cacaagttcg 180

tgctgaatga caagaagaat ccgatcatct tctcgatgtc gcgtctcgac cgcgtgaaga 240

acatgtcagg cctggtggag atgtacggca agaacgcgcg cctgagggag ctggcgaacc 300

tcgtgatcgt cgccggtgac cacggcaagg agtccataga cagggaggag caggcggagt 360

tcaaga 366

<210> 820

<211> 211
 <212> DNA
 <213> Zea mays

 <400> 820

 aggggtatctg gcctgcacat tgacccttac cacagcgaca aggccgcgga tatcctggtc 60
 aacttctttg acaaatgcaa ggcagatccg agctactggg acaagatctc acagggcggc 120
 ctgcagagaa tctatgagaa gtacacctgg aagctctact ccgagaggct gatgaccctg 180
 accggcgtgt acgggttctg gaagtacgtg a 211

<210> 821
 <211> 246
 <212> DNA
 <213> Zea mays

 <400> 821

 gtccctccat gtcgaagtcc atcggaaatg gagtgcaatt ccttaaccga cacctgtcgt 60
 ccaagttggt ccaggacaag gagagtttgt accccttgct gaacttcctc aaggctcata 120
 actacaaggg caccgacgatg atgttgaatg acagaatcca aagccttcgt ggtctccaat 180
 catccctgag aaaggcagag gagtatctac tgagtgttcc tcaagacact ccctactcgg 240
 agttca 246

<210> 822
 <211> 237
 <212> DNA
 <213> Zea mays

 <400> 822

 cgagtacaag ttgaagggcc atatccggtg gatctcggcg cagatgaacc gcgtccgcaa 60
 cggggagctg taccgctaca tttgcgatac gaagggcgca ttcgtgcagc ctgcgttcta 120
 cgaagcggtc ggcctgactg tgatcgagtc catgacgtgc ggtctgccaa cgatcgcgac 180
 ctgccatggt ggcctgctg agatcatcgt ggacggggta tctggcctgc acattga 237

<210> 823
 <211> 236
 <212> DNA
 <213> Zea mays

<400> 823

gtgacggaaa ccttggtgcg tgtttgctcg ccacacaagat ggggtgttact cactgtacca 60

ttgccccatgc gcttgagaaa actaagtacc ctaactccga cctctactgg aagaagtttg 120

aggatcacta ccacttctcg tgccagttca tcaactgactt gattgcaatg aaccatgccg 180

acttcatcat caccagtacc ttccaagaga tcgccggaaa caaggacacc gtcggc 236

<210> 824

<211> 273

<212> DNA

<213> Zea mays

<400> 824

gaaggggttg ggtgacactg cgaacgtgta ctgcacacac tccacttgct tctcgacctt 60

ctggaggccc ctgatcctgc caacttggag aagttccttg gaactatacc aatgatgttc 120

aacgttggtta tctgtctcc tcatggctac ttgccccagt ccaatgtgct tggataccct 180

gacactggcg gtcaggttgt gtacattctg gatcaggtcc gtgccttgga gaatgagatg 240

cttctgagga ttaagcagca gggcctgata tca 273

<210> 825

<211> 245

<212> DNA

<213> Zea mays

<400> 825

cgcaactaca gcgatggcaa cctagtcgcc actctgctcg cacacaagtt gggagtcact 60

cagtgtacca tcgctcatgc cttggagaaa accagatacc ccaactcgga catctacttg 120

gacaagttcg acagccagta ccacttctct tgccagttca cagctgacct tattgccatg 180

aaccacactg atttcatcat caccagcaca ttccaagaaa tcgcgggaag caaggacacc 240

gtggg 245

<210> 826

<211> 232

<212> DNA

<213> Zea mays

<400> 826

ccaccctaca agctgatacc ccatactctg aatttcacca caggttccag gaacttggtc 60
 tggagaaggg ttgggggtgat tgcgctaagc gtgcacagga gactatccac ctcctcttgg 120
 acctcctgga ggccccagat ccgtccaccc tggagaagtt ccttggaacg atccccatgg 180
 tgttcaatgt cgttatcctc tcccctcatg gttacttcgc tcaagctaata gt 232

<210> 827
 <211> 238
 <212> DNA
 <213> Zea mays

<400> 827

gcgtgtacgg gttctggaag tacgtgtcca acctggagag gcgcgagacc cggcgggtacc 60
 tggagatgct gtacgcgctc aagtaccgca ccatggcgag caccgtgccg ctggccgtgg 120
 agggagagcc ctccagcgag tgatgctga cggcggccac agacctgac gagcgatgag 180
 cgagagggag cactcggagt gtcgtgtctt tgcccttgcc atttctttct ttcttctt 238

<210> 828
 <211> 255
 <212> DNA
 <213> Zea mays

<220>
 <221> unsure
 <222> (1)..(255)
 <223> unsure at all n locations

<400> 828

ggcgagctgt accgctacat ctgcgacacc aagggcgctt tcgtgcagcc tgctttctac 60
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 gcctacggcg ntccggccga gatcatcgtg caccggcgtg ctggctacca catcgaccct 180
 taccagggcg acaaggcgtc ggccctgctc gtggacttct tcgacaagtg ccaggcggag 240
 ctgagccact ggagc 255

<210> 829
 <211> 271
 <212> DNA
 <213> Zea mays

<400> 829

ggttcgctg ccattcagaa cagaaaacgg aatcgttcgc aagtggatct cgcgatttga 60
 agtctggccg tacctggaga cttacactga tgacgtggcg catgagattg ctggagagct 120
 tcaggccaat cctgacctga tcatccgaa actacagtga cggaacctt gttgcgtgtt 180
 tgctcgccca caagatgggt gttactcact gtaccattgc ccatgcgctt gagaaaacta 240
 agtaccctaa ctccgacctc tactggacga a 271

<210> 830
 <211> 260
 <212> DNA
 <213> Zea mays

<400> 830
 gagctgtacc gctacatttg cgataccaag ggcgcattcg tgcagcctgc gttctacgaa 60
 gcgttcggcc tgactgtgat cgagtccatg acgtgcggtc tgccaacgat cgcgatctgc 120
 catggtggcc ctgctgagat catcgtggac ggggtatctg gcctgcacat tgacccttac 180
 cacagcgaca aggccgcgga tatcctggtc aacttctttg acaaagcaa ggcagatccg 240
 agctactggg acaagatctc 260

<210> 831
 <211> 272
 <212> DNA
 <213> Zea mays

<400> 831
 ctcaccggcg tgtacgggtt ctggaagtac gtgtccaacc tggagaggcg cgagaccgg 60
 cggtaacctg agatgctgta cgcgctcaag taccgcacca tggcgagcac cgtgccgctg 120
 gccgtggagg gagagccctc cagcaagtga tgcgcgacgg cggccacaga cctgatcgat 180
 cgatgagcga gagggagcac tcggagtgtc gtgtcttttc gcttgccatt tctttctttt 240
 attcgcttcg cggaggcgaa gaaaagagtc tg 272

<210> 832
 <211> 252
 <212> DNA
 <213> Zea mays

<400> 832

cccacgcgtc cgcccacgcg tccgctcgtg ccagttcacc actgacttga ttgcaatgaa 60
ccatgccgac ttcacatca ccagtacctt ccaagagatc gccggaaaca aggacaccgt 120
cggccagtac gagtcacaca tggcggtcac aatgcctggc ctgtaccgcg ttgtccacgg 180
cattgatgtg ttcgaccca agttcaacat cgtgtctcct ggcgcgacc tgtccatcta 240
cttcccgtac ac 252

<210> 833
<211> 232
<212> DNA
<213> Zea mays

<400> 833

atcgcgacct gccatggtgg ccctgctgag atcatcgtgg acgggggtatc tggcctgcac 60
attgaccctt accacagcga caaggccgcg gatatacctgg tcaacttctt tgacaaatgc 120
aaggcagatc cgagctactg ggacaagatc tcacagggcg gctgcagag aatttatgag 180
aagtacacct ggaagctcta ctccgagagg ctgatgaccc tgaccggcgt gt 232

<210> 834
<211> 238
<212> DNA
<213> Zea mays

<400> 834

gcacgaggcg gacccgagcc actggagcaa gatctcccag ggcgggctcc agcgtatcga 60
ggagaagtac acctggaagc tctactcgga gaggtgatg acctcaccg gcgtgtacgg 120
gttctggaag tacgtgtcca acctggagag gcgcgagacc cggcggtacc tggagatgct 180
gtacgcgctc aagtaccgca ccatggcgag caccgtgccg ctggccgtgg agggagag 238

<210> 835
<211> 272
<212> DNA
<213> Zea mays

<400> 835

cggacgcgtg gtggcgcgtg agattgctgg agagcttcag gccaatcctg acctgatcat 60
cggaaactac acgtgacgga aaccttggtg cgtgtttgct cgcccacaag atgggtgtta 120

ctcactgtac cattgcccac gcgcttgaga aaactaagta ccctaactcc gacctctact 180
ggaagaagtt tgaggatcac taccacttct cgtgccagtt caccactgac ttgattgcaa 240
tgaaccatgc cgacttcac atcaccagta cc 272

<210> 836
<211> 262
<212> DNA
<213> Zea mays

<400> 836

tccgcaacgg cgagctgtac cgctacatct gcgacaccaa gggcgccctc gtgcagcctg 60
ctttctacga ggctttcggg ctgacggtgg ttgaggccat gacctgcggc ctgcccacgt 120
ttgccacagc ctacggcggt ccggccgaga tcatcgtgca cggcgtgtct ggctaccaca 180
tcgaccctta ccagggcgac aaggcgtcgg ccctgctcgt ggacttcttc gacaaatgcc 240
aggcggaccc gagccaatgg ag 262

<210> 837
<211> 313
<212> DNA
<213> Zea mays

<400> 837

cgagatgttc tacgccctga agtaccgtag cctggcaagc caggttccgc tgtccttcga 60
ttagtacggg gaaagaagaa gaagaagaag ccagggccgg agaaccatcg cctgcatttc 120
gatctgtttc accgcaattc gcattgttag tcgtgtattg gagttatgtg tacttggttt 180
ccaagaactt tggttccttg tatttatatc tttcttgat gaacgttttt aggcagcgct 240
ggcctgggtc ctagtatggg gagaattggc tgcacctttt gcttcgaata aaaatgcctg 300
ctcgttcacc tgt 313

<210> 838
<211> 225
<212> DNA
<213> Zea mays

<400> 838

ggcgaacctc gtgatcggtg ccggtgacca cggcaaggag tccaaggaca gggaggagca 60

ggcggagttc aagaagatgt acagcctcat cgacgagtac aagttgaagg gccatatccg 120
 gtggatctcg ggcgagatga accgcgtccg caacggggag ctgtaccgct acatttgca 180
 tacgaagggc gcattcgtgc agcctgcgtt ctacgaagcg ttcgg 225

<210> 839
 <211> 241
 <212> DNA
 <213> Zea mays

<400> 839

ggagtatcta ctgagtgttc ctcaagacac tccctactcg gagttcaacc ataggttcca 60
 agagcttggc ttggagaagg gttgggggtga cactgcgaac gtgtaactcg acacactcca 120
 cttgcttctc gaccttctgg aggccctga tctgccaac ttggagaagt tccttggaa 180
 tataccaatg atgttcaacg ttgttatcct gtctcctcat ggctacttcg ccagtccaa 240
 t 241

<210> 840
 <211> 235
 <212> DNA
 <213> Zea mays

<400> 840

gcacgaggcg agctgtaccg ctacatctgc gacaccaagg gcgccttcgt gcagcctgct 60
 ttctacgagg ctttcgggct gacggtggtt gaggccatga cctgcggcct gccacgttt 120
 gccacagcct acggcggtcc ggccgagatc atcgtgcacg gcgtgtctgg ctaccacatc 180
 gacccttacc agggcgacaa ggcgtcggcc ctgctcgtgg acttcttcga caagt 235

<210> 841
 <211> 226
 <212> DNA
 <213> Zea mays

<400> 841

gaggatcaag cagtgtggtc ttgacatcac gccgaagatc cttattgtca ccaggttgct 60
 ccctgatgca actggcacca cctgtggcca gcgccttgag aaggtccttg gcaccgagca 120
 ctgccatatc cttcgcgtgc cattcagaac agaaaacgga atcgttcgca agtggatctc 180

gcgatttgaa gtctggccgt acctggagac ttacactgat gacgtg 226

<210> 842
<211> 227
<212> DNA
<213> Zea mays

<400> 842

ggagcacctg tccaccctac aagctgatac cccatactct gaatttcacc acagggttcca 60

ggaacttggg ctggagaagg gttgggggtga ttgcgctaag cgtgcacagg agactatcca 120

cctcctcttg gacctcctgg aggccccaga tccgtccacc ctggagaagt tccttggaa 180

gatccccatg gtgttcaatg tcgttatcct ctcccctcat ggttact 227

<210> 843
<211> 226
<212> DNA
<213> Zea mays

<400> 843

gcccacaaga tgggtgttac tcaactgtacc attgcccattg cgcttgagaa aactaagtac 60

cctaactccg acctctactg gaagaagttt gaggatcact accacttctc gtgccagttc 120

accactgact tgattgcaat gaaccatgcc gacttcatca tcaccagtac cttccaagag 180

atcgccggaa acaaggacac cgtcggccag tacgagtcac acatgg 226

<210> 844
<211> 237
<212> DNA
<213> Zea mays

<400> 844

cagaatccaa agccttcgtg gtctccaatc atccctgaga aaggcagagg agtatctact 60

gagtgttcct caagacactc cctactcgga gttcaaccat aggttccaag agcttggctt 120

ggagaagggg tggggtgaca ctgcgaacgt gtactcgaca cactccactt gcttctcgac 180

cttctggagg cccctgatcc tgccaacttg gagaagttcc ttggaactat accaatg 237

<210> 845
<211> 234

<212> DNA
 <213> Zea mays
 <400> 845
 ggcgaaacctc gtgatcggtg ccggtgacca cggcaaggag tccaaggaca gggaggagca 60
 ggcgagagttc aagaagatgt acagcctcat cgacgagtac aagttgaagg gccatatccg 120
 gtggatctcg ggcagatga accgcgtccg caacggggag ctgtaccgct acatttgca 180
 tacgaagggc gcattcgtgc agcctgcgtt ctacgaagcg ttcggcctga ctgt 234

<210> 846
 <211> 243
 <212> DNA
 <213> Zea mays
 <400> 846
 atccggtgga tctcggcgca gatgaaccgc gtcgcaacg gggagctgta ccgctacatt 60
 tgcgatacga acggcgcatc cgtgcagcct gcgttctacg aagcgttcgg cctgactgtg 120
 atcgagtcca tgacgtgcgg tctgccaaacg atcgcgacct gccatggtgg ccctgctgag 180
 atcatcgtgg acgggggtatc tggcctgcac attgaccctt accacagcga caaggccgcg 240
 gat 243

<210> 847
 <211> 238
 <212> DNA
 <213> Zea mays
 <220>
 <221> unsure
 <222> (1)..(238)
 <223> unsure at all n locations
 <400> 847
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 gacctgtcca tctacttccc gtacaccgag tcgcacaaga ggctgacctc ccttcacccg 120
 gagattgagg agctcctgta cagccaaacc gagaacacgg agcacaagtt cgttctgaac 180
 gacaggaaca agccaatcat cttctccatg gctcgtctcg accgtgtgaa gaattgaa 238

<210> 848

<211> 228
 <212> DNA
 <213> Zea mays

 <400> 848

 ggcaacggcg tgtctggcta ccacatcgac cettaccagg gcgacaaggc gtcggccctg 60
 ctctgtggact tcttcgacaa gtgccaggcg gacccgagcc actggagcaa gatctcccag 120
 ggcggggctcc agcgtatcga ggagaagtac acctggaagc tctactcgga gaggtgatg 180
 accctcaccg gcgtgtacgg gttctggaag tacgtgtcca acctggag 228

<210> 849
 <211> 217
 <212> DNA
 <213> Zea mays

 <400> 849

 cgatcatctt ctcgatggcg cgtctcgacc gcgtgaagaa catgacaggc ctggtcgaga 60
 tgtacggcaa gaacgcgcgc ctgagggagc tggcgaacct cgtgatcggt gccggtgacc 120
 acggcaagga gtccaaggac agggaggagc aggcggaggt caagaagatg tacagcctca 180
 tcgacgagta caagttgaag ggccatatcc ggtggat 217

<210> 850
 <211> 236
 <212> DNA
 <213> Zea mays

 <400> 850

 cccacgcgtc cgctggtgaa cctcgtggtc gtctgcggcg accatggcaa cccttccaag 60
 gacaaggagg agcaggccga gttcaagaag atgtttgacc tcatcgagca gtacaacctg 120
 aacgggcaca tccgctggat ctccgcccag atgaaccgcg tccgcaacgg cgagctgtac 180
 cgctacatct gcgacaccaa gggcgccttc gtgcagcctg ctttctacga ggcttt 236

<210> 851
 <211> 222
 <212> DNA
 <213> Zea mays

 <400> 851

caagcggctg caggagctgg tgaacctcgt ggtcgtctgc ggcgacctg gcaacccttc 60
 caaggacaag gaggagcagg ccgagttcaa gaagatgttt gacctcatcg agcagtacaa 120
 cctgaacggg cacatccgct ggatctccgc ccagatgaac cgcgtccgca acggcgagct 180
 gtaccgctac atctgcgaca ccaagggcgc cttcgtgcag cc 222

<210> 852
 <211> 224
 <212> DNA
 <213> Zea mays

<400> 852

cccttccaag gacaaggagg agcaggccga gttcaagaag atgtttgacc tcatcgagca 60
 gtacaacctg aacgggcaca tccgctggat ctccgccag atgaaccgcg tccgcaacgg 120
 cgagctgtac cgctacatct gcgacaccaa gggcgccttc gtgcagcctg ctttctacga 180
 ggctttcggg ctgacggtgg ttgaggccat gacctgcggc ctgc 224

<210> 853
 <211> 265
 <212> DNA
 <213> Zea mays

<400> 853

cgtgtctcct ggcgcggacc tgtccatcta cttcccgtag accgagtcgc acaagaggct 60
 gacctccctt caccgggaga ttgaggagct cctgtacagc acacggagca caagttcggt 120
 ctgaacgaca ggaacaagcc aatcatcttc tccatggctc gtctcgaccg tgtgaagaac 180
 ttgactgggc tggaggagct gtacggccgg aacaagcggc tgcaggagct ggtgaactcg 240
 tggtcgtctc gagcgacatg gcaac 265

<210> 854
 <211> 260
 <212> DNA
 <213> Zea mays

<400> 854

gtacgccttg ctcaacttcc ttgcgcacca caactacaag gggatgacca tgatgttgaa 60
 cgacagaatc cgcagtctca gtgctctgca aggtgcgctg aggaaggctg aggagcacct 120

gtccacccta caagctgata cccatactc tgaatttcac cacaggttcc aggaacttgg 180
tctggagaag ggttggggtg attgcgctaa gcgtgcacag gagactatcc acctcctctt 240
ggacctcctg gaggccccag 260

<210> 855
<211> 260
<212> DNA
<213> Zea mays

<400> 855

ggacctggtg acctcaccg gcgtgtacgg gttctggaag tacgtgtcca acctggagag 60
gcgagcgacc cggcgggtacc tggagatgct gtacgcgctc aagtaccgca ccatggcgag 120
cacctgtccg ctggccgtgg agggagagcc ctccagcaag tgatgcgtga cggcggccac 180
agacctgatc gatcgatgag cgagagggag caetcggagt gtcgtgtctt ttcccttgcc 240
atttctttct ttcttctttt 260

<210> 856
<211> 266
<212> DNA
<213> Zea mays

<400> 856

tggtgacact gcgaaggtgt actcgacaca ctcaacttgc ttcttgacct tcttgaggcc 60
cctgatcctg ccaacttggga gaagttcctt ggaactatac caatgatgtt caatgttggt 120
atcctttctc ctcatggcta cttcgctcag tccaatgtgc ttggataccc tgacactggc 180
ggtcaggttg tgtacattct ggatcaagtc cgtgcttttg agaatgagat gcttctgagg 240
attaagcagc aagccttgat atcact 266

<210> 857
<211> 233
<212> DNA
<213> Zea mays

<400> 857

gcacgaggcg ccttcgtgca gcctgctttc tacgaggctt tcgggctgac ggtggttgag 60
gccatgacct gcggcctgcc cacgtttgcc acagcctacg gcggtccggc cgagatcatc 120

gtgcacggcg tgtctggcta ccacatcgac ccttaccagg gcgacaaggc gtcggccctg 180
ctcgtggact tcttcgacaa gtgccaggcg gacccgagcc actggagcaa gat 233

<210> 858
<211> 225
<212> DNA
<213> Zea mays

<400> 858

ccaagttcaa catcgggtct cctggcacgg acctgtccat ctacttcccg tacaccgagt 60
cgcacaagat gctgacctcc cttcagccgg agatttacga gtcctgtac aggcaaaccg 120
agaacacgga gcacaagttc gttctgaacg acagggacaa gccaatcatc ttctccatgg 180
ctcgtctcga ccgtgtgaag aactttactg ggctgggtgga gctgt 225

<210> 859
<211> 275
<212> DNA
<213> Zea mays

<400> 859

gcggcggggtc tcgcgccgct acatcgagat gttctacgcc ctgaagtacc gtagcctggc 60
aagccagggtt ccgctgtcct tcgattagta cggggaaaga agaagaagaa gaagcccagg 120
ccggagaacc atcgctgca agtcgatctg tttcaccgca attcgattg ttagtcgtgt 180
attggagtta tgtgtacttg gtttccaaga actttgggtc cttgtttttt tttctttctt 240
gtttgagcgg ttttgggcag cgctggcctg gttcc 275

<210> 860
<211> 267
<212> DNA
<213> Zea mays

<400> 860

cggacgcgtg ggcggacgcg tgggcggacg cgtggggttg aactatacca atgatgttca 60
acgttggtat cctgtctcct catggctact tcgaccagtc caatgtgctt ggataccctg 120
aactggcgg tcaggttggtg tacattctgg atcaggtccg tgctttggag aatgagatgc 180
ttctgaggat taagcagcaa ggccttgata tcactccgaa gatcctcatt gttaccaggc 240

tgttgcctga tgctgctggg actacgt

267

<210> 861
<211> 228
<212> DNA
<213> Zea mays

<400> 861

gcacgagcca acctggagag gcgcgagacc cggcgggtacc tggagatgct gtacgcgctc 60
aagtaccgca ccatggcgag caccgtgccg ctggccgtgg agggagagcc ctccagcaag 120
tgatgcgcga cggcggccac agacctgac gatcgatgag cgagagggag cactcggagt 180
gtcgtgtctt ttcccttgcc atttctttct ttttttcct tcccggag 228

<210> 862
<211> 247
<212> DNA
<213> Zea mays

<400> 862

cggagatcca gcgatgtgc ccgttcaggt gaaccgcgtc cgcaacggcg agctgtaccg 60
ctacatctgc gacaccaagg gcgccttcgt gcagcctgct ttctacgagg ctttcgggct 120
gacggtgggt gaggccatga cctgcggcct gccacgttt gccacagcct acggcgggtcc 180
ggccgagatc atcgtgcacg gcgtgtctgg ctaccacatc gacccttacc agggcgacaa 240
ggcgtcg 247

<210> 863
<211> 219
<212> DNA
<213> Zea mays

<400> 863

actcactgta ccattgccca tgcgcttgag aaaactaagt accctaactc cgacctctac 60
tggaagaagt ttgaggatca ctaccacttc tcgtgccagt tcaccactga cttgattgca 120
atgaaccatg ccgacttcac catcaccagt accttccaag agatcgccgg aaacaaggac 180
accgtcggcc agtacgagtc acacatggcg ttcacaatg 219

<210> 864

<211> 229
 <212> DNA
 <213> Zea mays

<400> 864

cttgataacc ctgacactgg cggtcaggtt gtgtacattc tggatcaggt ccgtagctttg 60
 gagaatgaga tgcttctgag gattaagcag caaggccttg atatcactcc gaagatcctc 120
 attgttacca ggctgttgcc tgatgctgct gggactacgt gcggtcagcg gctggagaag 180
 gtcattggta ctgagcacac agacatcatt cgcgttcctt tcagaaatg 229

<210> 865
 <211> 239
 <212> DNA
 <213> Zea mays

<400> 865

cggaccgtgg ctcaacaggc acctgtcatc aaagctcttc catgacaagg agagcatgta 60
 ccccttgctc gacttccttc gcgcccacaa ctacaagggg atgaccatga tgttgaacga 120
 cagaatccgc agtctcagtg ctctgcaagg tgcgctgagg aaggctgagg agcacctgtc 180
 caccctacaa gctgataccc catactctga atttcaccac aggttccagg aacttggtc 239

<210> 866
 <211> 259
 <212> DNA
 <213> Zea mays

<400> 866

tgctcgagcc gaatcggtc gagcttcaga aatgagaatg gcatcctccg caagtggatc 60
 tctacttttg atgtctggcc atagctggag acatacactg aggatgtttc cagtgaata 120
 atgaaagata tgcaggccaa gcctgacctt atcattggca actacagcga tggcaacccg 180
 gtcgccactc tgctcgcgca caagttggga gtcactcagt gtaccatcgc tcatgccttg 240
 gagaaaacca aatacccca 259

<210> 867
 <211> 222
 <212> DNA
 <213> Zea mays

<400> 867

ccaggccgga gaaccatcgc ctgcatttcg atctgtttca ccgcaattcg cattgttagt 60
cgtgtattgg agttatgtgt acttggtttc caagaacttt ggttccttct cgtttttttt 120
ccttgtttga gagtttttgg gcagcgctgg cctggttcct agtatggtgg gaattggctg 180
caccttttgc ttcgaataaa aatgcctgct cgttcacctg tc 222

<210> 868

<211> 220

<212> DNA

<213> Zea mays

<400> 868

ctgggacaag atctcacagg gcggcctgca gagaatctat gagaagtaca cctggaagct 60
ctactccgag aggctgatga ccctgaccgg cgtgtacggg ttctggaagt acgtgagcaa 120
cctggagagg gcgagagacc gccgctacat cgagatgttc tacgccctga agtaccgtag 180
cctggcaagc caggttccgc tgtccttcga ttagtacggg 220

<210> 869

<211> 235

<212> DNA

<213> Zea mays

<400> 869

cagacgctgg gcgaccgcgt gaagaacatg acaggcctgg tggagatgta cggcaagaac 60
gcgcgcctga gggagctggc gaacctcgtg atcgtcgccg gtgaccacgg caaggagtcc 120
aaggacaggg aggagcaggc ggagttcaag aagatgtaca gcctcatcga cgagtacaag 180
ttgaagggcc atatccggtg gatctcggcg cagatgaacc gcgtccgcaa cgggg 235

<210> 870

<211> 259

<212> DNA

<213> Zea mays

<400> 870

tgagaatggc atcctccgca agtggatctc tcgttttgtc gtctggccat acctggagac 60
atacactgag gatgtttcca gtgaaataat gaaagaaatg caggccaagc ctgaccttat 120

cattggcaac tacagcgatg gcaacctagt cgccactctg ctcgcacaca agttgggagt 180
 cactcattgt accatcgctc atgccttggg gaaaaccaa taccccaact cggacatcta 240
 cttggacaag tcgacagcc 259

<210> 871
 <211> 245
 <212> DNA
 <213> Zea mays

<400> 871

gttcaccact gacttgattg caatgaacca tgccgacttc atcatcacca gtaccttcca 60
 agagatcgcc ggaacaagg acaccgtcgg ccagtagcag tcacacatgg cggtcacaat 120
 gcctggcctg taccgcgttg tcaacggcat tgatgtgttc gacccaggt tcaacatcgt 180
 gtctcctggc gcggacctgt ccacctactt cccgtaaacc gattcgcaca agaggctgac 240
 ctccc 245

<210> 872
 <211> 277
 <212> DNA
 <213> Zea mays

<400> 872

aggagagttt gtacccttg ctgaattcct caaggctcat aactacaagg gcacgacgat 60
 gttgttgaat gacagaatcc aaagccttcg tgggtctcaa tcatccctga gaaaggcaga 120
 ggagtatcta ctgagtgttc ctcaagacac tctctactcg gagttcaacc atagggtcca 180
 agagcttggc ttggagaagg gttgggtga catgcgaacg tgtactcgac aactccatt 240
 gcttctcgac cttctggagg ccctgatccg ccaattg 277

<210> 873
 <211> 247
 <212> DNA
 <213> Zea mays

<400> 873

ctcgagccgc tcgagccggg cacgacgatg atgttgaatg acagaatcca aagccttcgt 60
 ggtctccact catccctgag aaaggcagag gagtatctac tgagtgttcc tcaagacact 120

ccctactcgg agttcaacca taggttccaa gagcttggtt tggagaaggg ttgggggtgac 180
actgcgaacg tgtactcgac acactccact tgcttcttga ccttcttgag gccctgatc 240
ctgccaa 247

<210> 874
<211> 231
<212> DNA
<213> Zea mays

<400> 874

gggcgacaag gcgtcggccc tgctcgtgga cttcttcgac aagtgccaa aggagcgatg 60
ccactggagc aagatctccc agggcgggct ccagcgtatc gaggagaagt acacctggaa 120
gctgtactcg gagaggctga tgaccctcac cggcgtgtac gggttctgga agtacgtgtc 180
caacctggag aggcgcgaga cccggcggtta cctggagatg ctgtacgcgc t 231

<210> 875
<211> 266
<212> DNA
<213> Zea mays

<400> 875

cggacgcgtg ggcggacgcg tgggcggacg cgtggggttg aactatacca atgatgttca 60
acgttgttat actgtctcct catggctact tcgcacagtc caatgtgctt ggataccctg 120
aactggcgg tcaggttgtg tacattctgg atcaggtccg tgctttggag aatgagatgc 180
ttctgaggat taagcagcaa ggccttgata tcaactccgaa gatcctcatt gttaccaggc 240
tgttgcctga tgctgctggg actacg 266

<210> 876
<211> 169
<212> DNA
<213> Zea mays

<400> 876

cgctcaagct aatgtcttgg gttaccctga caccggagge caggttgtct acatcttgga 60
tcaagtgcgc gctatggaga acgaaatgct gctgaggatc aagcagtgtg gtccctgacat 120
cacgccgaag atccctaatt tccacaggtt gtcctctgat gcaactggc 169

<210> 877
 <211> 306
 <212> DNA
 <213> Zea mays

<400> 877

aaggacaggg aggagcaggc ggagttcaag aagatgtaca gcctcatcga cgagtacaag 60
 ttgaagggcc atatccggtg gatctcggcg cagatgaacc gcgtccgcaa cggggagctg 120
 taccgctaca tttgcgatac gaagggcgca ttcgtgcagc ctgcgttcta cgaagcgttc 180
 ggccctgactg tgatcgagtc catgacgtgc ggtctgccaa cgatcgcgac ctgccatggt 240
 ggccctgctg agatcatcgt ggacggggta tctggcctgc acattgaccc ttaccacagc 300
 gacaag 306

<210> 878
 <211> 244
 <212> DNA
 <213> Zea mays

<400> 878

ttcggcacga gacaagatct cacagggcgg cctgcagaga atctatgaga agtacacctg 60
 gaagctctac tccgagaggc tgatgaccct gaccggcgtg tacgggttct ggaagtacgt 120
 gagcaacctg gagaggcgcg agaccgcgg ctacatcgag atgttctacg ccctgaagta 180
 ccgtagcctg gcaagccagg ttccgctgtc cttcgattag tacggggaaa gaagaagaag 240
 aaga 244

<210> 879
 <211> 214
 <212> DNA
 <213> Zea mays

<400> 879

acggaaaccg acaagagact cactgccttc catcctgaaa tcgaggagct catctacagc 60
 gacgtcgaga actccgagca caagttcgtg ctgaaggaca agaagaagcc gatcatcttc 120
 tcgatggcgc gtctcgaccg cgtgaagaac atgacaggcc tggtcgagat gtacggcaag 180
 aacgcgcgcc tgaggagct ggcgaacctc gtga 214

<210> 880
 <211> 213
 <212> DNA
 <213> Zea mays

<400> 880

gagattgctg gagagcttca ggccaatcct gacctgatca tcggaaacta cagtgcgga 60
 aaccttggtg cgtgtttgct cgcccacaag atgggtgtta ctactgtac cattgcccac 120
 gcgcttgaga aaactaagta ccctaactcc gacctctact ggaagaagtt tgaggatcac 180
 taccacttct cgtgccagtt caccactgac ttg 213

<210> 881
 <211> 239
 <212> DNA
 <213> Zea mays

<400> 881

ctcatgcctt ggagaaaacc aaatacccca actcggacat atacttggac aaattcgaca 60
 gccagtacca cttctcttgc cagttcacag ctgaccttat tgccatgaac cacaccgttt 120
 tcatcatcac cagcacattc cttgtttatc tcgggaagca aggacaccgt ggggcagtac 180
 gagtcccaca tcgcgttcac tcttctctggg ctctaccgtg tcgtccatgg catgatgtt 239

<210> 882
 <211> 215
 <212> DNA
 <213> Zea mays

<400> 882

acaagagact cactgccttc catcctgaaa tcgaggagct catctacagc gacgtcgaga 60
 actccgagca caagtctgtg ctgaaggaca agaagaagcc gatcatcttc tcgatggcgc 120
 gtctcgaccg cgtgaagaac atgacaggcc tggtcgagat gtacggcaag aacgcgcgcc 180
 tgagggagct ggcgaacctc gtgatcgttg ccggt 215

<210> 883
 <211> 253
 <212> DNA
 <213> Zea mays

<400> 883

gctgcttgac cttcttgagg cccctgatcc tgccaacttg gagaagttcc ttggaactat 60

accaatgatg ttcaatggtg tgatccttcc tcctcatggc tacttcgctc agtccaatgt 120

gcttggatac cctgacactg gcggtcaggt tgtgtacatt ctggatcaag tccgtgcttt 180

ggagaatgag atgcttctga ggattaagca gcaaggcctt gatatcactc cgaagatcct 240

cattgttacc agg 253

<210> 884

<211> 265

<212> DNA

<213> Zea mays

<400> 884

cttcccgtac accgagtcgc acaagaggct gacctccctt cacccgaga ttgaggagct 60

cctgtacagc caaaccgaga acacggagca caagtctgtt ctgaacgaca ggaacaagcc 120

aatcattctt gtttgtctacc tccaaatcgg gggcgcttgt tctcgaccgt gtgaagaact 180

tgactgggct ggtggagctg tacggccgga acaagcggct gcaggagctg gtgaacctcg 240

tggtcgtctg cggcgaccat ggcaa 265

<210> 885

<211> 213

<212> DNA

<213> Zea mays

<400> 885

ctgaatttca ccacaggttc caggaacttg gtctggagaa gggttggggt gattgcgcta 60

agcgtgcaca ggagactatc cacctcctct tgggactcct ggaagcccca gaatcggtca 120

acctggagaa gttccctgga acgattccca tgggtgttcaa tggcggtaac ctctcccctc 180

atgggtactt cgctcaagct aatgtcctgg ggt 213

<210> 886

<211> 230

<212> DNA

<213> Zea mays

<400> 886

ctcgtgatcg ttgccggtga ccacggcaag gagtccaagg acatggagga gcaggcggag 60
 ttcaagaaga tgtacagcct catcgacgcy tacaagttga agggccatat ccggtggatc 120
 tcggcgcaga tgaaccgcgt ccgcaacggg gagctgtacc gctacatttg cgatacgaag 180
 ggcgcatctg tgcagcctgc gttctacgaa gcgttcggcc tgactgtgat 230

<210> 887
 <211> 227
 <212> DNA
 <213> Zea mays

<220>
 <221> unsure
 <222> (1)..(227)
 <223> unsure at all n locations

<400> 887

gacaagtgcc agccggacga ngccactgga gcaagatctc ccagggcggg ctccagcgta 60
 tcgaggagaa gtacacctgg aagctgtact cggagaggct gatgaccctc accggcgtgt 120
 acgggttctg gaagtacgtg tccaacctgg agaggcgcga gaccggcggt tacctggaga 180
 tgctgtacgc gctcaagtac cgcaccatgg cgagcacctg gccgctg 227

<210> 888
 <211> 231
 <212> DNA
 <213> Zea mays

<400> 888

cccacgcgtc cgcttggaaca aattcgacag ccagtaccac ttctcttgcc agttcacagc 60
 tgaccttatt gccatgaacc acaccgattt catcatcacc agcacattcc aagaaatcgc 120
 gggaagcaag gacaccgtgg ggcagtagca gtccacatc gcgttcactc ttcctgggct 180
 ctaccgtgtc gtccatggca tcgatgtttt cgatcccaag ttcaacattg t 231

<210> 889
 <211> 248
 <212> DNA
 <213> Zea mays

<400> 889

ctcgatggcg cgtctcgaga agatgatcgg cttcttcttg atggcgcgtc tcgaccgcgt 60

gaagaacatg acaggcctgg tggagatgta cggcaagaac gcgcgcctga gggagctggc 120
gaacctcgtg atcgtcgccg gtgaccacgg caaggagtcc aaggacaggg aggagcaggg 180
ggagttcaag aagatgtaca gcctcatcga cgagtacaag ttgaagggcc atatccggtg 240
gatctcgg 248

<210> 890
<211> 227
<212> DNA
<213> Zea mays

<400> 890

gaatcgttcg caagtggatc tcgcgatttg aagtctggcc gtacctggag acttacactg 60
atgacgtggc gcatgagatt gctggagagc ttcaggccaa tctgacctg atcattggaa 120
actacagtga cgaaacctt gttgcgtgtt tgctcgccca caagatgggt gttactcact 180
gtaccattgc ccatgcgctt gagaaaacta agtaccctaa ctccgac 227

<210> 891
<211> 295
<212> DNA
<213> Zea mays

<400> 891

gttctagatc gcgagcagcc gccctttttt tttttttttt ttttcaggaa aagggtcca 60
aggccactac gattattatt caaggagcaa catcccatcc aggaaacaaa gggagcacca 120
caccogactg cacacacacc accaccacca ccgttcctc tcaaccgacg caacgcaaac 180
tactaacagt ccatcagact actaaaagcg acaccgggat caatgatgga acaagacctt 240
gacaaggtag gtaaatttaa ctcttgaagc aaagagcagc aacgaacgcc cgccg 295

<210> 892
<211> 225
<212> DNA
<213> Zea mays

<400> 892

ttcggcacga gacaagatct cacagggcgg cctgcagaga atctatgaga agtacacctg 60
gaagctctac tccgagagge tgatgacct gaccggcgtg tacgggttct ggaagtacgt 120

gagcaacctg gagaggcgcg agaccgccc ctacatcgag atgttctacg ccctgaagta 180
 ccgtagcctg gcaagccagg ttccgctgtc cttcgattag tacgg 225

<210> 893
 <211> 245
 <212> DNA
 <213> Zea mays

<400> 893

gggagacaat gttgaacttg ggatcgaaaa ccgacaagag actcactggc ttcgatcctg 60
 aaatcgagga gctcatcaac agcgacgtcg agaactccga gcacaagttc gtgctgaagg 120
 acaagaagaa gccgatcatc ttctcgatgg cgcgtctcga ccgcgtgaag aacatgacag 180
 gcctgggtgga gatgtacggc aagaacgcgc gcctgaggga gctggcgaac ctcgtgatcg 240
 tcgcc 245

<210> 894
 <211> 221
 <212> DNA
 <213> Zea mays

<400> 894

acggaaaccg acaagagact cactgccttc catcctgaaa tcgaggagct catcaacagc 60
 gacgtcgaga actccgagca caagtctgtg ctgaaggaca agaagaagcc gatcatcttc 120
 tcgatggcgc gtctcgaccg cggaagaaca tgacaggcct ggtggagatg tacggcaaga 180
 acgcgcgcct gagggagctg gcgaacctcg taatcgtcgc g 221

<210> 895
 <211> 247
 <212> DNA
 <213> Zea mays

<400> 895

aatttaccta ccttgtcaag gtcttgttcc atcattgata cgggtgtcgc ttttttagta 60
 gtctgatgga ctgttagtag tttgcgttgc gtcggttgag agggaacgtt ggtggtggtg 120
 gtgtgtgtgc agtcaggcgt ggtgtccct ttgtttcctg gatgggatgt tgctccttga 180
 ataataatcg tagtggcctt ggagcccttt tcctgaaaaa aaacaaaaag agagttggag 240

atgagga 247

<210> 896
 <211> 254
 <212> DNA
 <213> Zea mays

<400> 896

gaggattaag cagcaaggcc ttgatacact ccgaagatcc tcattgttac caggctgttg 60
 cctgatgctg ctgggactac gtgcggtcag cggctggaga aggtcattgg tactgagcac 120
 acagacatca ttcgcgttcc gttcagaaat gagaatggca tcctccgcaa gtggatctct 180
 cgttttgatg tctggccata cctggagaca tacactgagg atgtttccag tgaaataatg 240
 aaagaactgc aggc 254

<210> 897
 <211> 229
 <212> DNA
 <213> Zea mays

<400> 897

cccacgcgtc cgcccacgcg tccgcttccc gtacaccgag tcgcacaaga ggctgacctc 60
 ccttcacccg gagattgagg agctcctgta cagccaaacc gagaacacgg agcacaagtt 120
 cgttctgaac gacaggaaca agccaatcat cttctccatg gctcgtctcg accgtgtgaa 180
 gaacttgact gggctggtgg agctgtacgg ccggaacaag cggctgcag 229

<210> 898
 <211> 221
 <212> DNA
 <213> Zea mays

<400> 898

cggacgctgg tgtagcgcta agcgtgcaca ggagactatc cacctcctct tggacctcct 60
 ggaggcccca ccatccgtcc accctggaga agttccttgg aacgatcccc atgggtgttca 120
 atgtcgttat cctctcccct catggttact tcgctcaagc taatgtcttg ggttaccctg 180
 acaccggagg ccaggttgtc tacatcttgg atcaagtgcg c 221

<210> 899
 <211> 224
 <212> DNA
 <213> Zea mays

<400> 899

cgcgtccgca acggcgagct gtaccgctac atctgcgaca ccaagggcgc cttcgtgcag 60
 cctgctttct acgaggcttt cgggctgacg gtggttgagg ccatgacctg cggcctgccc 120
 acgtttgccca cagcctacgg cggtcgggcc gagatcatcg tgcacggcgt gtctggctac 180
 cacatcgacc cttaccaggg cgacaaggcg tcggccctgc tcgt 224

<210> 900
 <211> 220
 <212> DNA
 <213> Zea mays

<400> 900

acggaaaccg acaagagact cactgccttc catcctgaaa tcgaggagct catcaacagc 60
 gacgtcgaga actccgagca caagtctgtg ctgaaggaca agaagaagcc gatcatcttc 120
 tcgatggcgc gtctcgaccg cggaagaaca tgacaggcct ggtggagatg tacggcaaga 180
 acgcgcgcct gagggagctg gcgaacctcg tgatcgctcg 220

<210> 901
 <211> 252
 <212> DNA
 <213> Zea mays

<400> 901

agacgagtcc cacattcctg ggctctaccg tgctgtccat ggcacgatg ttttcgatcc 60
 caagttcaac attgtctccc ctggagcaga catgagtgtt tactaccctg atacggaaac 120
 cgacaagaga ctactgcct tccatctga aatcgaggag ctcatctaca gcgacgtcga 180
 gaactccgag caagtctga aggacaagaa gaagccgatc atcttctcga tggcgcgtct 240
 cgaccgcgtg ag 252

<210> 902
 <211> 253
 <212> DNA
 <213> Zea mays

<400> 902

cccacgcgtc cgcccacgcg tcagccacgc gtccgcccac gcgtccgcat cgtgtctcct 60
ggcgcggaacc tgtccatcta cttcccgtac accgagtcgc acaagaggct gacctccctt 120
caccgcggaga ttgaggagct cctgtacagc caaacccgaga acacggagca caagttcgtt 180
ctgaacgaca ggaacaagcc aatcatcttc tccatggctc gtctcgaccg tgtgaagaac 240
ttgactgggc tgg 253

<210> 903

<211> 228

<212> DNA

<213> Zea mays

<400> 903

aagatactca ctgccttcca tcctgaaatc gaggagctcg tctacagcga cgtcgagaac 60
tccgagcaca agttcgtgct gaaagacaag aagaagccga tcattcttctc gatggcgcggt 120
ctcgaccgcg tgaagaacat gacaggcctt gtcgagatgt acggcaagaa cgcgcgcttg 180
agggagctgg cgaacctcgt gatcgttgcc ggtgaccacg gcaaggag 228

<210> 904

<211> 197

<212> DNA

<213> Zea mays

<400> 904

cccgtaacac gagtcgcaca agaggctgac ctcccttcac ccggagattg aggagctcct 60
gtacagccaa accgagaaca cggagcaciaa gttcgtttctg aacgacagga acaagccaat 120
catctttctcc atggctcgtc tcgaccgtgt gaagaacttg actgggctgg tggagctgta 180
cggccggaac aagcggc 197

<210> 905

<211> 310

<212> DNA

<213> Zea mays

<220>

<221> unsure

<222> (1) .. (310)

<223> unsure at all n locations

<400> 905

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cgctcaagta cgcacccatg gcgagcaccg tgccgctggc cgtggaggga gagccctcca   60
gcaagtgatg cgcgacggcg gccacagacc tgatcgatcg atgagcgana gggagcactc  120
ggagtgtcga gtcttttccc ttgccatttc tttctttttt tcccttcccg gaggcgaaaa  180
aaaagagtct gcttttgcta ggctgcgggc gttcgttgct gctctttgct tcaagagtta  240
aatttaccta ccttgtcaag gtcttgttcc atcattgatc cgggtgtcgc ttttttagta  300
gtctgatgga                                     310
```

<210> 906

<211> 237

<212> DNA

<213> Zea mays

<400> 906

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gaacagaaaa cggaatcggt cgcaagtgga tctcgcgatt tgaagtctgg ccgtacctgg   60
agacttacac tgatgacgtg gcgcatgaga ttgctggaga gcttcaggcc aatcctgacc  120
tgatcatcgg aaactacagt gacggaaacc ttgttgctg tttgctcgcc cacaagatgg  180
gtgttactca ctgtaaccat tgccatgcgc ttgagaaaac taagtaccct aactccg     237
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<210> 907

<211> 266

<212> DNA

<213> Zea mays

<400> 907

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cgacaaggcc tgcagagaat ctatgagaag tacacctgga agctctactc cgagaggctg   60
atgacctga ccggcgtgta cgggttctgg aagtacgtga gcaacctgga gaggcgcgag  120
acccgccgct acatcgagat gttctacgcc ctgaagtacc gtagcctggc aagccagggt  180
ccgctgtcct tcgattagta cggggaaaga agaagaagaa gaagcccagg ccggagaacc  240
atcgctgca tttcgatctg tttcac                                     266
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<210> 908

<211> 252

<212> DNA

<213> Zea mays

<400> 908

caaagtcctt ggcaccgagc actgccatat ccttcgcgtg ccattcacta cagtgaacgg 60
aatcgttcgc tagtggatct cgcgatttga agtctggccg tacctggaga cttacactga 120
cgacgtggcg catgagatta ctggagagcg acaggccaat cctgacctga ccatcgga 180
ctacagtgc ggaaccttg ttgcgtgtt gctcgacgac aagatgggcg ttactcactg 240
tacaattgcc ca 252

<210> 909

<211> 252

<212> DNA

<213> Zea mays

<400> 909

gcaccatggc gagcaccgtg ccgctggccg tggagggaga gccctccagc aagtgatgcg 60
cgacggcgcc cacagacctg atcgatcgat gagcgagagg gagcactcgg agtgtcgtgt 120
cttttccctt gccatttctt tcttttttcc ccttcccga agcgaaaaaa agagtctgct 180
tttgtaagcg gcgggcgttc gttgctgctc tttgcttcaa gagtttaa at ttacctacct 240
tgtcaaaggc ct 252

<210> 910

<211> 240

<212> DNA

<213> Zea mays

<400> 910

ctcgagcgaa tcggctcacg gctcgagtgg ctacttcgct cagtccaatg tgattggata 60
ccctgacact agcggtcagg atgtgtacat tctggatcag gtccgtgctt tggagaatga 120
gatgcttctg aggattaagc agcaaggcct tgatatcact ccgaagatcc tcattgttac 180
caggctgttg cctgatgctg ctgggactac gtgcggtcag cggctggaga aggtcatggc 240

<210> 911

<211> 264

<212> DNA

<213> Zea mays

<400> 911

cggacgcgtg gcgacgcgt gggcgacgc gtgggcaagt tcgtgctgaa ggacaagaag 60

aagccgatac atcttctcga tggcgctct cgaccgcgtg aagaacatga caggcctggt 120

ggagatgtac ggcaagaacg cgcgcctgag ggagctggcg aacctcgtga tcgtcgccgg 180

tgaccacggc aaggagtcca aggacagga ggagcaggcg gagttcaaga agatgtacag 240

cctcatcgac gagtacaagt tgaa 264

<210> 912

<211> 216

<212> DNA

<213> Zea mays

<220>

<221> unsure

<222> (1)..(216)

<223> unsure at all n locations

<400> 912

gcgttgcca cggcattgat gtgttcgacc ccaagttcaa catcgtgtct cctggcgcg 60

acctgtccat ctacttcccg tacaccgagt cgcacaagag gctgacctcc cttcaccgg 120

agattgagga gtcctgtac agccaaaccg agaacangga gcacaagttc gttctgaang 180

acaggaacan gcnatcatct tctcgatggc ncgtng 216

<210> 913

<211> 215

<212> DNA

<213> Zea mays

<400> 913

acagctgcaa aggtaagcac taggatgctg ctcttatttc aggaaaagg ctccaaggcc 60

actacgatta ttattcaagg agcaacatcc catccaggat acaaaggag caccacgcct 120

gactgcacac acaccagcac caccaacgtt ccctctcaac cgacgcaacg caaactacta 180

acagtccatc agactactaa aaaagcgaca cccgg 215

<210> 914

<211> 202

<212> DNA

<213> Zea mays

<400> 914

agcgatggca acctagtcgc cactctgctc ggcacaaagt tgggagtcac tcagtgtacc 60
atcgctcatg ccttggagaa aaccaaatac cccaactcgg acatatactt ggacaaattc 120
gacagccagt accacttctc ttgccagttc acagctgact tattgccatg aaccacaccg 180
atttcatcat caccagcaca tt 202

<210> 915

<211> 197

<212> DNA

<213> Zea mays

<400> 915

ccttccaaga gatcgccgga aacaaggaca ccgtcggcca gtacgagtcac cacatggcgt 60
tcacaatgcc tggcctgtac cgcgttgctc acggcattga tgtgttcgac cccaagttca 120
acatcggtgc tcttggcgcg gacctgtcca tctagttccg gtacacggag tcgcacaaga 180
ggctgacttc ctttcac 197

<210> 916

<211> 234

<212> DNA

<213> Zea mays

<400> 916

cccacgcgtc cggcgcggac ctgtccatct acttcccgtc caccgagtcg cacaagagggc 60
tgacctccct tcacctggag attgaggagc tctgttacag ccaaaccgag aacacggagc 120
acaagttcgt tctgaacgac aggaacaagc caatcatctt ctccatggct cgtctcgacc 180
gtgtgaagaa cttgactggg ctggtggagc tgtacggccg gaacaagcgg ctgc 234

<210> 917

<211> 252

<212> DNA

<213> Zea mays

<220>

<221> unsure

<222> (1)..(252)

<223> unsure at all n locations

<400> 917

atncagcgct cgagccgctc gagcgctcac ttctcgatgg cgcgtctcga ccgctgaag 60

cccatgacag gactggacga gatgtacggc aagaacgcgc gcctgaggga gctggcgaac 120

ctcgtgatcg ttgccggtga ccacggcaag gagtccaagg acaggaggga gcaggcggag 180

ttcaagaaga tgtacagcct catcgacgag tacaagttga agggccatat ccggtggatc 240

tcggcgcgaga tg 252

<210> 918

<211> 249

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<213> Zea mays

<400> 918

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gttgaagggc catatccggt ggatactcgg cgcagatgaa ccgcgtccgc atacgggagc 180

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<211> 277

<212> DNA

<213> Zea mays

<400> 919

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tgagtgttta ctaccgatat agggaaacgg acaagagatt cactgccttc catcctgaaa 180

tcgaggtgct catctacagc gacgtcgaga actccgagca caagttcgtg ctgaaggaca 240

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<211> 190

<212> DNA

<213> Zea mays

<400> 920

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ggatatcctg gtcaacttct ttgacaaatg caaggcagat ccgagctact gggacaagat 180

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<211> 218

<212> DNA

<213> Zea mays

<400> 921

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ttgccatgaa ccacactgat ttcacatca ccagcacatt ccaagaaatc gcgggaagca 180

aggacaccgt ggggcagtac gagtcccaca tcgcgttc 218

<210> 922

<211> 180

<212> DNA

<213> Zea mays

<400> 922

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aggagctcat ctacagcgac gtcgagaact ccgagcacia gtctgtgctg aaggacaaga 120

agaagccgat atcttctcga tggcgcgctc cgaccgcgtg aagaacatga caggcctggt 180

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<211> 239

<212> DNA

<213> Zea mays

<400> 923

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tcgtgatcgt tgccggtgac cacggcaagg agtccaagga caggaggagg caggcggagt 180

tcaagaagat gtacagcctc atcgacgagt acaagttgaa gggccatata cggtggatc 239

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 <212> DNA
 <213> Zea mays

<400> 924

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gccactggag caagatctcc cagggcgggc tccagcgat cgaggagaag tacacctgga 120

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<400> 925

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tttgcgttgc gtcggttgag agggaacgtt ggtggtggtg gtgtgtgtgc agtcaggcgt 180

ggtgctccct ttgtttctg gatgggatgt tgctccttga 220

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<400> 926

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gtgcagcctg ctttctacga ggctttcggg ctgacgggtg ttgaggccat gacctgcggc 120

ctgcccacgt tcgccaccgc ctacggcggt ccggccgaga tcatcgtgca cggcgtgtct 180

ggctaccaca tatctccagg gcga 204

<210> 927
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<400> 927

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cagatccgtc caccctggag aagttccttg gaaggttccc cagggtgttc gatggcggaa 180

tcctctcccc tcgtggttac tgc 203

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<211> 165

<212> DNA

<213> Zea mays

<400> 928

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acttgattgc aatgaaccat gccgacttca tcatcaccag taccttccaa gagatcgccg 120

gaaacaagga caccgtcggc cagtacgagt cacacatggc gttca 165

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<211> 175

<212> DNA

<213> Zea mays

<400> 929

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caccgtcggc cagtacgagt cacacatggc gttcacaatg ctggcctgta cgggt 175

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<211> 166

<212> DNA

<213> Zea mays

<400> 930

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gagcaggcgg agttcaagaa gatgtacagc ctcacgacg agtacaagtt gaagggccat 120

atacggtgga tctcggcgca gatgaaccgc gtccgcaacg gggagt 166

<210> 931

<211> 167
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 <213> Zea mays
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 ggtcagcggc tggagaaggt cattggtact gagcacacag acatcattcg cgttccgttc 120
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 <212> DNA
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 gctctaccgt gtcgtccatg gcatcgatgt ttctgatccc a 161

<210> 933
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 <211> 280
 <212> DNA
 <213> Zea mays
 <400> 934
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 gaagcccagg ccggagaacc atcgccctgca tttcgatctg tttcaccgca attcgcattg 120
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tttttccttg tttgatcgct ttttggcagc gctggcctgg ttcctagtat ggtgggaatt 240
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<210> 935
 <211> 286
 <212> DNA
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<400> 935

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 aggagtatct actgagtgtt cctcaagaca ctccctactc ggagttcaac catagggtcc 180
 aagagcttgg tttggagaag ggttgggggtg aactgcca cgtgtactcg acacactcca 240
 cttgcttctt agacttcttg aggccctga tctgccaac ttggga 286

<210> 936
 <211> 164
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<400> 936

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 tgccgctggc cgtggaggga gattcctcca gcaagtgatg cgtg 164

<210> 937
 <211> 208
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 <213> Zea mays

<400> 937

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 gacaggtccg acgccaggag acacgatgtt gaacttgggg tcgaacacat caatgccgtg 120
 gacaacgcgg tacaggccag gcattgtgaa cgccatgtgt gactcgtact ggccgacggt 180
 gtccttgttt ccggcgatct cttggaag 208

<210> 938

<211> 304
 <212> DNA
 <213> Zea mays

 <400> 938

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 aaccgagaac acggagcaca agttcgttct gaacgacagg aacaagccaa tcatcttctc 120
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 caagcggctg caggagctgg tgaactcgtg gtcgtctgcg gcgacatgga acctccaaga 240
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 ctcg 304

<210> 939
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 <212> DNA
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 gcctgcattt cgatctgttt caccgcaatt cgcattgtta gtcgtgtatt ggagttatgt 180
 gtac 184

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 <400> 940

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 agcagacatg agtgtttact acacgtatac ggagaccgac aagagactca ctgccttcca 120
 tcctgagatc gaggagctca tctacagcga cgtcgagaac tccgagcaca agttcg 176

<210> 941
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 <212> DNA
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<400> 941

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acacactcca cttgcttctc gactttacgg aggcccccta tcctgccaac ttggagaagt 180

tcctggga 188

<210> 942

<211> 142

<212> DNA

<213> Zea mays

<400> 942

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aaggtcattg gtactgagca cacagacatc attcgcgttc cgttcagaaa tgagaatggc 120

atcctccgca agtggatctc tc 142

<210> 943

<211> 235

<212> DNA

<213> Zea mays

<400> 943

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gcccaggccg gagaaccatc gcctgcattt cgatctgttt caccgcaatt cgcattgtta 120

gtactgtatt ggagttatgt gtacttggtt tccaagaact ttggttcctt ctcgtttttt 180

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<211> 136

<212> DNA

<213> Zea mays

<400> 944

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ctgcagcctg cccacgtttg ccacagccta cggcgggtccg gccgagatca tcgtgcacgg 120

cgtgtctggg taccac 136

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 tgtccacggc attga 135

<210> 946
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 tacctggaga tgctgtacgc gctcaagtac cgcaccatgg cgaccaccgt accgctgccg 240
 tgga 244

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 tgtccaacct ggagaggcgc gagactcggc ggtacctgga gatgctgtac gcgctcaagt 120
 accgcaccat ggcgagcacc gtgccgctgg ccgtggag 158

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tgccatttct ttctttcttc tttttccttc ccggaggcga aaaaaaaga gtctgctttt 180
g 181

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catgaaccac accgatttca tcatg 145

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gtcctgtacc gcgttgcca cggcattgat gtgttcgacc cgagtttgaa catcgtgtct 180

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 caagtgatgc gtgcgg 136

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ggcg 124

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<400> 957

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tggtcgagat gtacggcaag aacgcgcgcc tgagggagct ggcgaa 106

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<400> 958

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<212> DNA
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<400> 959

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cttgagagccc ttttcctg 138

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ta 122

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<400> 961

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cagtgtctctg 130

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<210> 970
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 <212> DNA
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<210> 971
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 <212> DNA
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 ccttattgcc atgaaccaca ccgatttca 89

<210> 972
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 <212> DNA
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<400> 973

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tgaactgata gcactctttt ccaggtatgt tcaccagggc aagggaatgc ttcagcgcca 180

tcagctgctt gcggagtttg atgccctggt tgatagtgc aaggagaagt atgcaccctt 240

tgaagacatt cttcgtgctg ctcaggaagc aattgtgctc ccccatggg ttgcacttgc 300

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<210> 974

<211> 288

<212> DNA

<213> Zea mays

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<211> 303

<212> DNA

<213> Zea mays

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ctgactcgcc tccacagtct tcgcgaacgc cttggtgcca ccttctcctc ccatcccaat 120

gaactgatag cactcttttc caggtatgtt caccagggca agggaatgct tcagcgccat 180

cagctgcttg cggagtttga tgccctgttt gatagtgcaca aggagaagta tgcacccttt 240

gaagacattc ttcgtgctgc tcaggaagca attgtgctcc ccccatgggt tgcacttgc 300

atc 303

<210> 976

<211> 274
 <212> DNA
 <213> Zea mays

 <400> 976

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 catcagctgc ttgcggagtt tgatgccctg tttgatagtg acaaggagaa gtatgcaccc 120
 tttgaagaca ttcttcgtgc tgctcaggaa gcaattgtgc tccccccatg gggtgcactt 180
 gctatcaggc caaggcctgg tgtctgggat tacattcggg tgaatgtaag tgagctggct 240
 gtggaggagc tgagtgtttc tgagtacttg gcat 274

<210> 977
 <211> 283
 <212> DNA
 <213> Zea mays

 <400> 977

 gcttgcctcc tggtgaccat tgggtattct gaaccatcga gccatggctg ccaagctgac 60
 tcgcctccac agtcttcgcg aacgccttgg tgccaccttc tcctcccatc ccaatgaact 120
 gatagcactc ttttccaggt atgttcacca gggcaaggga atgcttcagc gccatcagct 180
 gcttgccggag tttgatgccc tgtttgatag tgacaaggag aagtatgcac cctttgaaga 240
 cattcttcgt gctgctcagg aagcaattgt gctccccgca tgg 283

<210> 978
 <211> 263
 <212> DNA
 <213> Zea mays

 <400> 978

 gctccctggt gaccattggg tattctgaac catcgagcca tggctgccaa gctgactcgc 60
 ctccacagtc ttgcggaacg ccttggtgcc accttctcct cccatcccaa tgaactgata 120
 gcactctttt ccaggatatg tcaccagggc aagggaatgc ttcagcgcca tcagctgctt 180
 gcggagtttg atgcctggt tgatagtgc aaggagaagt atgcaccctt tgaagacatt 240
 ctctgtgctg ctcaggaagc aat 263

<210> 979

<211> 262
 <212> DNA
 <213> Zea mays

<400> 979

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 aagctgactc gcctccacag tcttcgcgaa cgccttggtg ccaccttctc ctcccatccc 120
 aatgaactga tagcactctt ttccaggtat gttcaccagg gcaagggaat gcttcagcgc 180
 catcagctgc ttgcgaggtt tgatgccctg tttgatagtg acaaggagaa gtatgcaccc 240
 tttgaagaca ttcttcgtgc tg 262

<210> 980
 <211> 250
 <212> DNA
 <213> Zea mays

<400> 980

gctccctggt gaccattggg tattctgaac catcgagcca tggctgcca gctgactcgc 60
 ctccacagtc ttgcggaacg ccttggtgcc accttctcct cccatcccaa tgaactgata 120
 gcactctttt ccaggtatgt tcaccagggc aagggaatgc ttcagcgcca tcagctgctt 180
 gcggagtttg atgccctggt tgatagtgc aaggagaagt atgcaccctt tgaagacatt 240
 ctctgtgctg 250

<210> 981
 <211> 274
 <212> DNA
 <213> Zea mays

<400> 981

ttggactgct tgctccctgt tgaccattgg gtattctgaa ccatcgagcc atcgctgcca 60
 agctgactcg cctccacagt cttcgcgaac gccttggtgc caccttctcc tcccatccca 120
 atgaactgat agcactcttt tccaggtatg ttcaccaggg caaggcatg cttcagcgcc 180
 atcagctgct tgcggagtct gatgccctgt ttgatagtga caaggagaag tatgcaccct 240
 ttgaagacat tcttcgtgct gctcaggaag caat 274

<210> 982

<211> 233
 <212> DNA
 <213> Zea mays

 <400> 982

 ctgttgacca ttgggtattc tgaaccatcg agccatggct gccaaagtga ctgcctcca 60
 cagtcttcgc gaacgccttg gtgccacctt ctctcccat cccaatgaac tgatagcact 120
 cttttccagg tatgttcacc agggcaagg aatgcttcag cgccatcagc tgcttgcgga 180
 gtttgatgcc ctgtttgata gtgacaagga gaagtatgca ccctttgaag aca 233

<210> 983
 <211> 217
 <212> DNA
 <213> Zea mays

 <400> 983

 ggactgcttg ctccctgttg accattgggt attctgaacc atcgagccat ggctgccaa 60
 ctgactcgcc tccacagtct tcgcgaacgc cttggtgcca cttctctctc ccattcccaat 120
 gaactgatag cactcttttc caggatgtt caccaggga agggaatgct tcagcgccat 180
 cagctgcttg cggagtttga tgcctgttt gatagtg 217

<210> 984
 <211> 258
 <212> DNA
 <213> Zea mays

 <400> 984

 actgcttgct ccctgttgac cattgggtat tctgaaccat cgagccaacg ctgccaagct 60
 gactcgctc cacagtcttc gcgaacacct tgggtgccacc ttctctccc atcccaatga 120
 actgatagca ctcttttcca gttatgttca ccagggaag ggaatgcttc agcgccatca 180
 gctgcttgcg tgagtttgat gccctgtttg atagtgacaa ggagaagtat gcaccctttg 240
 aagacatcct cgtgctgc 258

<210> 985
 <211> 243
 <212> DNA
 <213> Zea mays

<400> 985

cccacgcgtc cggacccacg cgtccgagac attcttcgtg ctgctcagga agcgattgtg 60
ctccccccat gggttgcaact tgctatcagg ccaaggcctg gtgtctggga ttacattcgg 120
gtgaatgtaa gtgagctggc tgtgggagag ctgagtgttt ctgagtactt ggcattcaag 180
gaacagctgg tggatggaca atccaacagc aactttgtgc ttgagcttga ttttgagccc 240
ttc 243

<210> 986

<211> 247

<212> DNA

<213> Zea mays

<400> 986

cattggactg cttgtccctg ttgaccattg ggtattctgt accatcgagc catagctgcc 60
acgctgactc gcctccacag tcttcgcgaa cgccttggtg ccaccttctc ctcccatccc 120
aatgaactga tagcactctt ttccaggtat gttcaccagg gcaagggact gcttcagcgc 180
catcagctgc ttgcggagtt tgatgcctg tttgcatatg acaggagcag tatgcaccct 240
ttgaaga 247

<210> 987

<211> 211

<212> DNA

<213> Zea mays

<400> 987

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cactcttttc caggtatggt caccagggca tgggaatgct tcagcgccat cagctgcttg 180
cggagtttga tgccctgttt catagtgaca c 211

<210> 988

<211> 150

<212> DNA

<213> Zea mays

<400> 988

attggactgc ttgctccctg ttgaccattg ggtattctga accatcgagc catggctgcc 60
aagctgactc gcctccacag tcttcgcgac cgtcttggtg ccaccttctc ctcccatccc 120
aatgaactga tagcactctt ttccaggtat 150

<210> 989
<211> 128
<212> DNA
<213> Zea mays

<400> 989

ttggactgct tgctccctgt tgaccattgg gtattctgaa ccatcgagcc atggctgcca 60
agctgactcg cctccacagt cttcgcgaac gccttggtgc caccttctcc tcccatccca 120
atgaactg 128

<210> 990
<211> 125
<212> DNA
<213> Zea mays

<400> 990

tccattggac tgcttgctcc ctgttgacca ttgggtattc tgaaccatcg agccatggct 60
gccaaagtga ctgcctcca cagtcttcgc gaacgccttg gtgccacctt ctctcccat 120
cccaa 125

<210> 991
<211> 116
<212> DNA
<213> Zea mays

<400> 991

attggactgc ttgctccctg ttgaccattg ggtattctga accatcgagc catggctgcc 60
aagctgactc gcctccacag tcttcgcgaa cggcttggtg ccaccttctc ctccca 116

<210> 992
<211> 298
<212> DNA
<213> Zea mays

<400> 992

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 tgtttctctcc tctcctttgg attggaggtc cctccttctt ctctctctct tctcagagga 120
 aggcttgagg atccaggaag aggacagcaa tgggggaagg tgcaggtgac cgtgtcctga 180
 gccgcctcca cagcgtcagg gagcgcattg gcgactcact ctctgccaca cccaatgagc 240
 ttgtcgccgt ctttcacagg ctgaaaaacc tttggaaagg tatgctgcag cccaccag 298

<210> 993
 <211> 291
 <212> DNA
 <213> Zea mays

<400> 993

cccgtccatt tgatttgcg ttcactgcgtt gcgtttcctt ggaggggatt gttctctcct 60
 ctcttttga ttggaggtcc ctcttcttct tctctctctct ctccagaggaa ggcctgagga 120
 tccaggaaga ggacagcaat gggggaagg tgcaggtgacc gtgtcctgag ccgcctccac 180
 agcgtcaggg agcgcattgg cgactcactc tctgcccacc ccaatgagct tgtcgccgtc 240
 ttcaccaggc tgaaaaacct tggaaagggt atgctgcagc cccaccagat c 291

<210> 994
 <211> 263
 <212> DNA
 <213> Zea mays

<400> 994

agttcatoga ttcagttctt gcctgaggat ccaggaagag gacagcaatg ggggaagggt 60
 caggtgaccg tgtcctgagc cgcctccaca gcgtcaggga gcgcattggc gactcactct 120
 ctgcccaccc caatgagctt gtgcgccgtct tcaccaggct gaaaaacctt ggaaagggtta 180
 tgctgcagcc ccaccagatc attgccgagt acaacaatgc gatccctgag gctgagcgcg 240
 agaagctcaa ggatggtgct ttt 263

<210> 995
 <211> 267
 <212> DNA
 <213> Zea mays

<400> 995

ctccgttcac cccgtccatt tgatttgcgt tcaactgcgtt gcggggcctt ggaaggatt 60
gtttctctct ctcctttgga ttggaggtcc ctctctcttc tctctctct ctcagaggaa 120
ggcctgagga tccaggaaga ggacagcaat gggggaaggt gcaggtgacc gtgtcctgag 180
ccgcctccac agcgtcaggg agcgcattgg cgactcactc tctgcccacc ccaatgagct 240
tgtcgccgtc ttcaccaggc tgaaaaa 267

<210> 996
<211> 266
<212> DNA
<213> Zea mays

<400> 996

cacacgcgtc cgcggacgcg tggccgttca cccgtccat ttgatttgcg ttcactgcgt 60
tgcgtttcct tggacgggct tgttctctcc tctcctttgg attggaggtc cctccttctt 120
ctcctctctc tctcagagga aggcctgagg atccaggaag aggacagcaa tgggggaagg 180
tgcaggtgac cgtgtcctga gccgcctcca cagcgtcagg gagcgcattg gcgactcact 240
ctctgcccac cccaatgagc ttgtcg 266

<210> 997
<211> 303
<212> DNA
<213> Zea mays

<400> 997

ttgatttgcg ttcactgcgt tgcgtttcct tggaggggat tgttctctcc tctcctttgg 60
attggaggtc cctccttctt ctctctctc tctcagagga aggcctgagg atccaggaag 120
aggacagcaa tgggggaagg tgcaggtgac cgtgtcctga gccgcctcca cagcgtcagg 180
gagcgcattg gcgactcact ctctgcccac cccaatgagc ttgtcgccgt cttcaccagg 240
ctgaaaaacc ttggaaatgg tatgctgcag ccccaccaga tcattgccga gtacaacaat 300
gcg 303

<210> 998
<211> 229
<212> DNA
<213> Zea mays

<400> 998

ccccgtccat ttgatttgcg ttcactgcgt tgcgtttcct tggaggggat tgttctctcc 60

tctccttttg attggaggtc cctccttctt ctctctcttc tctcagagga aggctgagg 120

atccaggaag aggacagcaa tgggggaagg tgcaggtgac cgtgtcctga gccgcctcca 180

cagcgtcagg gagcgcattg gcgactcact ctctgcccac cccaatgag 229

<210> 999

<211> 298

<212> DNA

<213> Zea mays

<400> 999

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agaggaaggc ctgatgatcc aggaagacga cagcaatggg ggaaggtgca ggtgaccgtg 120

tcctgagccg cctccacagc gtcagggagc gcattggcga ctactctctt gccaccccca 180

atgagcttgt cgccgtcttc accaggctga aaaaccttgg aaagggtatg ctgcagcccc 240

accagatcat tgccgagtac aacaatgcga tccctgaggc tgagcgcgag aagctcaa 298

<210> 1000

<211> 257

<212> DNA

<213> Zea mays

<400> 1000

attccacctc cgttcacccc gtccatttga tttgcgttca ctgcgttgcg tttccttgga 60

ggggattggt ctctcctctc ctttggattg gaggtccctc cttcttctcc tctctctctc 120

agaggaaggc ctgaggattc aggaagagga cagcaatggg ggaaggtgca ggtgaccgtg 180

tcctgagccg cctccacagc gtcagggagc gcattggcga ttcatttttt gccaacccca 240

ttaaccttgt cgcggtt 257

<210> 1001

<211> 292

<212> DNA

<213> Zea mays

<400> 1001

ccccgtccat ttgatttgcg ttcactgccc tgcgtttcct tggaggggac tgttctctcc 60
tctcctctgg cctccgaggt cgctccttct tctcctctct ctctcagagg aaggcctgac 120
gatgcaggaa gaggacagca atgggggaac gtgcagggtga ccgtgtcctg agccgcctcc 180
acagcgtcat ggagcgcatt ggcgactcac tctctgcgca cccaatgag cttgtcgccg 240
tcttcaccag gcgaaaaaag cttggaaagg gtatgctgca gccgcaccag at 292

<210> 1002
<211> 220
<212> DNA
<213> Zea mays

<400> 1002

cccacgcgtc cggcgttgcg tttccttgga ggggattgtt ctctcctctc ctttggattg 60
gaggtccctc cttcttctcc tctctctctc agaggaaggc ctgaggatcc aggaagagga 120
cagcaatggg ggaaggtgca ggtgaccgtg tcttgagccg cctccacagc gtcagggagc 180
gcattggcga ctactctct gcccaccca atgagcttgt 220

<210> 1003
<211> 125
<212> DNA
<213> Zea mays

<400> 1003

cccacgcgtc cgcgcctcca cagcgtcagg gagcgcattg gcgactcact ctctgcccac 60
cccaatgagc ttgtcgccgt cttcaccagg ctgaaaaacc ttggaaaggg tatgctgcag 120
cccca 125

<210> 1004
<211> 127
<212> DNA
<213> Zea mays

<400> 1004

cccacgcgtc cgatttgatt tgcgttcact gcgttgcggt tcttggagg ggattgttct 60
ctcctctcct ttggattgga ggtccctcct tcttctccgc tctctctcag aggaatgcct 120
agggatc 127

<210> 1005
 <211> 188
 <212> DNA
 <213> Zea mays

<220>
 <221> unsure
 <222> (1)..(188)
 <223> unsure at all n locations

<400> 1005

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 tgtttctcaac tctcctttgg attggagggtc cctccttctt ctctctcttc tctcagagga 120
 aggctgagg atccaggaag aggacagcaa ttggggaagg tgcaggtgac cgtgtcctga 180
 gccgcctc 188

<210> 1006
 <211> 123
 <212> DNA
 <213> Zea mays

<400> 1006

atttgogttc acagcgttgc gtttccttgg aggggattgt tctcacctct cctttggatt 60
 ggaggaccct ccttcttctc ctctctctct cagaggaagg cctgaggatc caggaagagg 120
 aca 123

<210> 1007
 <211> 104
 <212> DNA
 <213> Zea mays

<400> 1007

tgcaggtgac cgtgtcctga gccgcctcca cagcgtcagg gagcgcattg ggcactcact 60
 ctctgcccac cccaatgagc ttgtgcgctc ttcaccaggc tgaa 104

<210> 1008
 <211> 106
 <212> DNA
 <213> Zea mays

<400> 1008

tgcaggtgac cgtgtcctga gccgcctcca cagcgtcagg gagcgcattg gcgactcatt 60
 ctctgcacac cccaatgagc ttgtcgcgtc ttcaccaggc tgaaaa 106

<210> 1009
 <211> 126
 <212> DNA
 <213> Zea mays

<400> 1009

gtttcagttc atcgattcag ttcttgcttg aggatccagg aagaggacag caatgggaga 60
 acgtgcaggt gaccgtgtcc tgagccgcct ccacagcgtc aaggagcgca ttggcgactc 120
 actctc 126

<210> 1010
 <211> 242
 <212> DNA
 <213> Zea mays

<220>
 <221> unsure
 <222> (1)..(242)
 <223> unsure at all n locations

<400> 1010

tgcagggcac gcgctccangc gtgacgcggn gttgntcggc acnaancttc acntcanagc 60
 aactacctna actngtgngg gctgaccgtt gacgactact aaggagtcca aggacaggna 120
 ggancangcn gagttcanga agatgtacan gctnatnnac tagtacaagt tgnanggcca 180
 tatecggtgg atctnggctc acatgaacna ntttcncaat ngaaacctgt nccgttacat 240
 aa 242

<210> 1011
 <211> 229
 <212> DNA
 <213> Zea mays

<400> 1011

tctttgacaa atgcaaggca gatccgtgct actggtacaa gatctcacag ggcggcgtgc 60
 acagaatcta tgagacgtac acctggaagc tctacttcga gaggctgatg acctgaccg 120

gcgtgtacgg cttctggaag tacgtgagca tactgtagag gcacgagacc ctccgctaca 180
 togagatgta ctacgccttg aagcaccgga tcttggaag ccaggttcc 229

<210> 1012
 <211> 455
 <212> DNA
 <213> Zea mays

<400> 1012

atgttattgt aaatatatta ttggaaggga agggtttgat catgcataga agttatgcta 60
 acgtctcga ttcccggtcg accccgcgtc cggttctgag tacttggcat tcaaggaaca 120
 gctggtggat ggacaatcca acaacaactg tgtgcttgag cttgattagg agcccttcaa 180
 tgccactttt cctcgtcctt acatgtcgaa gtccatcgga catggaatgc aattccttaa 240
 ccgacacctg tcgtccaagt tgttccagga caaggagagt tcgtaccctt tgctgaactt 300
 cctcaaggct cataactaca aaggccacga cgatgatgtt ggatgacaga attccaagcc 360
 ttcgtggtct ccaatcatcc ctgaaaaagg cagaagagta tctactgagt gttccttaag 420
 acactcccta ctcgaggttc aaccataggt tccaa 455

<210> 1013
 <211> 178
 <212> DNA
 <213> Zea mays

<400> 1013

taaacaatga caccgtcggc cattacgagt cacacatggc gttcacaatg cctggcctgt 60
 accgagtcgt ccgcggaatt gatgtgctct accccaagtt caacatcctg tcttctggcg 120
 cggacctttc catctacttc ccgtacactg agtcgcacac aaagctgaac tgacttaa 178

<210> 1014
 <211> 386
 <212> DNA
 <213> Zea mays

<400> 1014

gataagaatc atctttcttg aacacagaag gatgcactgc gcctgacctt actactcgac 60
 tcagtcgacc atgccgactt gatcatcacc agtaccttcc aagagatcgc cggaaacaag 120

tacaccgtca ggcggtggtta ttacacatg gggttgacga tgcctggcct gtaccgactt 180
 gcccaactgca ttgatgtctt ccaccacaag ctcaacatcg tgtctcctct cgcgcaccta 240
 tccatctact taccgtacac ctactcgac aatacactga cctgccttca cccggagatt 300
 gaggagctcc tgtacacaca atccgctaac actgagcaca acttcatact taacgactgg 360
 atcaacccca tcatattcta catggc 386

<210> 1015
 <211> 428
 <212> DNA
 <213> Zea mays

<400> 1015

cgcggcagac ggtagccgac ttcttcgacc ggtgcaagca agaccagat cactggggga 60
 gaatatctgg agcagggctg cagcgcatat acgagaagta cacatggaag atatactcag 120
 agaggttgat gacactggcc ggggtctacg gtttctggaa gtacgtgtcg aagctcgaga 180
 ggcgggagac gaggcgctac cttgagatgt tctacatact gaagttccgc gagctggcga 240
 agaccgtgcc gcttgcaatt gaccaaccgc agtagcttgc gcaactgcga ctgcgtagca 300
 cttggtacaa gactgaaacc tgaaggacct tcagtaattt aggcgcggca gacggtagcc 360
 aataaaatgt gccggagctg aactggtttt tattatgtac ataatggcag tataacaaaa 420
 ttactgaa 428

<210> 1016
 <211> 485
 <212> DNA
 <213> Zea mays

<220>
 <221> unsure
 <222> (1)..(485)
 <223> unsure at all n locations

<400> 1016

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 ctcgttccat ttaaacgcg tccgcgactg cgagctttac cgctacatct gcgacaccaa 180
 tggcgccttc gtgcagcctg ctttctacga tgctttcggg cttactgtgg ttgaggccat 240

gacctgcggc ctgcccacgt ttgccacagc ctacggctgt cctgccgaga tcatcgtgca 300
 cggcgtgtct ggctaccaca ttgaccetta ccagggcgac aaggcttttg cccttgctcg 360
 tggacttttt tgacaagtgc catgcttact cctagccact ttgagcaaga tcttccatgg 420
 ctggcttcaa cttatctagg agaaattccc ctggaaactt tactcttata agctttttac 480
 cetta 485

<210> 1017
 <211> 417
 <212> DNA
 <213> Zea mays

<400> 1017

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 gcccttttct tctccatggt tcccatcgat gtgtttttgt tcggttctct cgtcagatct 120
 gtataaatag ggcctacct tctccgccat tctcgggtcc tgtgaagcgt ttcagttcat 180
 cgattgagtt cttggatgcc tctagttgta ttgtgtgttt cttctttctg gtctatgtac 240
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 tctttccccc cttccagagt taggttctgt tggtttcttg cctgcaatat agtttcgtgg 360
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<210> 1018
 <211> 411
 <212> DNA
 <213> Zea mays

<220>
 <221> unsure
 <222> (1)..(411)
 <223> unsure at all n locations

<400> 1018

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 agactcgaca gggatgaaga cataacgggg ctggatgaag cttttgctaa gtgcgctaag 120
 ctgagggagc tggtaaacct tgctgctcgt gccgggtaca atgatgtcaa caagtccaag 180
 gacaggggaag agatcgcgga gatagagaag atgcatgaac tcatcaagac ncacaacttg 240

ttcggggcagt ccgctggatc ctgccagaca acaggcccgt aacgcgagct ctatcgctac 300
 atcgctgata ccaatgggtgc ttctgtacac ccgggcctct atgaagcggt cggtctcacc 360
 gtcgttgagg ccatgnactg tgggcttcct actttcgcga cgctccatgg a 411

<210> 1019
 <211> 478
 <212> DNA
 <213> Zea mays

<400> 1019

tgcagatgaa ccatgccgac ttcattcatca ccagtacctt ccaagagatc gccggaaaca 60
 aggacaccgt cggccgggtgc gagtcacaca tggcggttcac aatgcctggc ctgtaccgcg 120
 ttgtccacgg cattgatgtg ttcgacccca agttcaacat cgtgtctcct ggcgcggacc 180
 tgtccatcta cttcccgtac accgagtcgc acaagaggct gacctccctt caccgcgaga 240
 ttgaggagct cctgtacagc caaacggaga acacggagca caagttcggt ctgaacgaca 300
 ggaacaagcc aatcatcttc tccatggctc gtctcgaccg tgtgaagaac ttgactgggc 360
 tgggtggagct gtacggccgg aacaagcggc tgcaggagct ggtgaacctc gtggtcgtct 420
 gcggcgacca tggcaaccct tccaaggaca aggaggaaca ggccgagttc aagaagat 478

<210> 1020
 <211> 469
 <212> DNA
 <213> Zea mays

<400> 1020

caaggaggag caggccgagt tcaagaagat gtttgacctc atcgagcagt acaacctgaa 60
 cgggcacatc cgctggatct ccgcccagat gaaccgcgtc cgcaacggcg agctgtaccg 120
 ctacatctgc gacaccaagg gcgccttcgt gcagcctgct ttctacgagg ctttcgggct 180
 gacggtgggt gaggccatga cctgcggcct gccacgttt gccacagcct acggcgggtcc 240
 ggccgagatc atcgtgcacg gcgtgtctgg ctaccacatc gacccttacc agggcgacaa 300
 ggcgtcggcc ctgctcgtgg acttcttcga caagtgccag gcggaccga gccactggag 360
 caagatctcc cagggcgggc tccagcgtat cgaggagaag tacacctgga agctctactc 420
 ggagaggctg atgacctca ccggcgtgta cgggttctgg aagtacgtg 469

<210> 1021
 <211> 442
 <212> DNA
 <213> Zea mays

<400> 1021

```

tggcaaccta gtcgccactc tgctcgcgca caagttggga gtcactcagt gtaccatggc 60
tcatgccttg gagaaaacca aataccccaa ctoggacata tacttggaca aattcgacag 120
ccagtaccac ttctcttgcc agttcacagc tgaccttatt gccatgaacc acaccgattt 180
catcatcacc agcacattcc aagaaatcgc gggaagcaag gacaccgtgg ggcagtacga 240
gtcccacatc gcgttcactc ttcttgggct ctaccgtgtc gtccatggca tcgatgtttt 300
cgatcccaag ttcaacattg tctcccctgg agcagacatg agtgtttact acccgtatac 360
ggaaaccgac aagagactca ctgccttcca tctgaaatc gaggagctca tctacagcga 420
cgtcgagaac tccgagcaca ag 442

```

<210> 1022
 <211> 441
 <212> DNA
 <213> Zea mays

<400> 1022

```

actcagtgtgta ccatcgctca tgccttggtta gaaaacaaaa taccccaact cggacggata 60
cttggacaaa ttcgacagcc agtaccactt ctcttgccag ttcacagctg accttattgc 120
catgaaccac accgatttca tcatcaccag cacattccaa gaaatcgcgg gaagcaagga 180
caccgtgggg cagtacgagt cccacatcgc gttcactctt cctgggctct accgtgtcgt 240
ccatggcatc gatgttttcg atcccaagtt caacattgtc tcccctggag cagacatgag 300
tgtttactac ccgtatacgg aaaccgacaa gagactcact gccttccatc ctgaaatcga 360
ggagctcatc tacagcgacg tcgagaactc cgagcacaag ttcgtgctga aggacaagaa 420
gaagccgatc atcttctcga t 441

```

<210> 1023
 <211> 453
 <212> DNA
 <213> Zea mays

<400> 1023

cccacgcgtc cgggacaccg tcggccatta cgagtcacac atggcggttca caatgcctgg 60
cctgtaccgc gttgtccacg gcattgatgt gttcgacccc aagttcaaca tcgtgtctcc 120
tggcgcgagc ctgtccatct acttcccgtc caccgagtcg cacaagaggc tgacctccct 180
tcacccggag attgaggagc tcctgtacag ccaaaccgag aacacggagc acaagtctgt 240
tctgaacgac aggaacaagc caatcatctt ctccatggct cgtctcgacc gtgtgaagaa 300
cttgactggg ctggtggagc tgtacggccg gaacaagcgg ctgcaggagc tgggtgaacct 360
cgtggctcgtc tgcggcgacc atggcaacct ttccaaggag aaggaggagc aggccgagtt 420
caagaagatg tttgacctca tcgagcagta caa 453

<210> 1024

<211> 444

<212> DNA

<213> Zea mays

<400> 1024

ctgaaggaca agaagaagcc gatcatcttc tcgatggcgc gtctcgaccg cgtgaagaac 60
atgacaggcc tggtcgagat gtacggcaag aacgcgcgcc tgaggagct ggcgaacctc 120
gtgatcgttg ccggtgacca cggcaaggag tccaaggaca gggaggagca ggcggagtcc 180
aagaagatgt acagcctcat cgacgagtac aagttgaagg gccatatccg gtggatctcg 240
gcgcagatga accgcgtccg caacggggag ctgtaccgct acatttgca tacgaagggc 300
gcattcgtgc agcctgcgtt ctacgaagcg ttccggcctga ctgtgatcga gtccatgacg 360
tgcggtctgc caacgatcgc gacctgccat ggtggccctg ctgagatcat cgtggacggg 420
gtatctggcc tgcacattga ccct 444

<210> 1025

<211> 441

<212> DNA

<213> Zea mays

<400> 1025

caccgtgggg cagtacgagt cccacatcgc gttcactctt cctgggctgt accgtgtgat 60
ccatggcatc gatgttttcg atcccaagtt caacattgtc tcccctggag cagacatgag 120

tgtttactac ccgtatacgg aaaccgacaa gagactcact gccttccatc ctgaaatcga 180
 ggagctcatc tacagcgacg tcgagaactc cgagcacaag ttcgtgctga aggacaagaa 240
 gaagccgatc atcttctcga tggcgcgctc cgaccgcgtg aagaacatga caggcctggg 300
 cgagatgtac ggcaagaacg cgcgcctgag ggagctggcg aacctcgtga tcgttgccgg 360
 tgaccacggc aaggagtcca aggacaggga ggagcaagcg gagttcaaga agatgtacag 420
 cctcatcgac gagtacaagt t 441

<210> 1026
 <211> 380
 <212> DNA
 <213> Zea mays

<400> 1026

cgcattgagat tgctggagag cttcaggcca atcctgacct gatcatcgga aactacagtg 60
 acggaaacct tggtgctgtg ttgctcgccc acaagatggg tggtactcac tgtaccattg 120
 cccatgcgct tgagaaaact aagtacccta actccgacct ctactggaag aagtttgagg 180
 atcaactacca cttctcgtgc cagttcacca ctgacttgat tgcaatgaac catgccgact 240
 tcatcatcac cagtaccttc caagagatcg ccggaaacaa ggacaccgtc ggccagtacg 300
 agtcacacat ggcgttcaca atgcctggcc tgtaccgcgt tgtccacggc attgatgtgt 360
 tcgaccccaa gttcaacatc 380

<210> 1027
 <211> 419
 <212> DNA
 <213> Zea mays

<400> 1027

cactgccttc catcctgaaa tcgaggagct catctacagc gacgtcgaga actccgagca 60
 caagttcgtg ctgaaggaca agaagaagcc gatcatcttc tcgatggcgc gtctcgaccg 120
 cgtgaagaac atgacaggcc tggtcgagat gtacggcaag aacgcgcgcc tgagggagct 180
 ggcgaaacct gtgatcgttg ccggtgacca cggcaaggag tccaaggaca gggaggagca 240
 ggcggagttc aagaagatgt acagcctcat cgacgagtac aagttgaagg gccatatccg 300
 gtggatctcg gcgcagatga accgcgtccg caacggggag ctgtaccgct acatttgcca 360

tacgaagggc gcattcgtgc agcctgcgtt ctacgaagcg ttcggcctga ctgtgatcg 419

<210> 1028
 <211> 437
 <212> DNA
 <213> Zea mays

<220>
 <221> unsure
 <222> (1)..(437)
 <223> unsure at all n locations

<400> 1028

cccacgcgtc cggaaacctt gttgcgtggt tgctcgccca caagatgggt gttactcact 60
 gtaccattgc ccatgcgctt gagaaaacta agtaccctaa ctccgacctc tactggaaga 120
 agtttgagga tcactaccac ttctcgtgcc agttcaccac tgacttgatt gcaatgaacc 180
 atgccgactt catcatcacc agtaccttcc aagagatcgc cggaaacaag gacaccgtcg 240
 gccagtacga gtcacacatg gcgttcacaa tgcttggcct gtaccgcgtt gtccacggca 300
 ttgatgtggt cgaccccaag ttcaacatcg tgtctcctgg cgcggaacctg tccatctact 360
 tcccgtacac cgagtcgcac aagaggcttg acctcctttc acccgagaat gangagctcc 420
 tgtacagcca aaccgag 437

<210> 1029
 <211> 425
 <212> DNA
 <213> Zea mays

<400> 1029

cctgaacggg cacatccgct ggatctccgt ccagatgaac cggtcgcaa cggcgagggt 60
 agcgctacat ctgcgacacc aagggcgcct tcgtgcagcc tgctttctac gaggctttcg 120
 ggctgacggt ggttgaggcc atgacctgcg gcctgcccac gtttgccaca gcctacggcg 180
 gtccggccga gatcatcgtg cacggcgtgt ctggctacca catcgaccct taccagggcg 240
 acaaggcgtc ggccctgctc gtggacttct tcgacaagtg ccaggcggac ccgagccact 300
 ggagcaagat ctcccagggc gggctccagc gtatcgagga gaagtacacc tggaagctct 360
 actcggagag gctgatgacc ctcaccggcg tgtacgggtt ctggaagtac gtgtccaacc 420
 tggag 425

<210> 1030
 <211> 431
 <212> DNA
 <213> Zea mays

<400> 1030

```
cgaccgtgtg aagaacttga ctgggctggt ggagctgtac ggccggaaca agcggctgcg 60
ggagctggtg aacctcgtgg tcgtctgcgg cgaccatggc aacccttcca aggacaagga 120
ggagcaggcc gagttcaaga agatgtttga cctcatcgag cagtacaacc tgaacgggca 180
catccgctgg atctccgccc agatgaaccg cgcccgcaac ggcgagctgt accgctacat 240
ctgcgacacc aagggcgccct tcgtgcagcc tgctttctac gaggctttcg ggctgacggt 300
ggttgaggcc atgacctgcg gcctgcccac gtttgccaca gcctacggcg gtccggccga 360
gatcatcggt cacggcgtgt ctggctacca catcgaccct taccagggcg acaaggcgtc 420
ggcctgctcg t 431
```

<210> 1031
 <211> 512
 <212> DNA
 <213> Zea mays

<220>
 <221> unsure
 <222> (1)..(512)
 <223> unsure at all n locations

<400> 1031

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agaaaaagtg tcngtgcctg caccgctcgc tanegcacta ctactgggtt ccaatatcgg 60
gggaggcgga cgcgttcgaa ctgatcgagc agtacaacct gaacgggcac atccgctgga 120
tctccgcca gatgaaccgg gtccgcaacg gcgagctgta ccgctacatc tgcgacacca 180
agggcgccct cgtgcagcct gctttctacg aggctttcgg gctgacggtg gttgaggcca 240
tgacctgcgg cctgcccacg tttgccacag cctacggcgg tccggccgag atcatcgtc 300
acggcgtgtc tggctaccac atcgaccctt accagggcga caaggcgctc gccctgctcg 360
tggacttctt cgacaagtgc caggcggacc cgagccactg gagcaagatc tcccagggcg 420
ggctccagcg tatcgaggag aagtacacct ggaagctcta ctcggagagg ctgatgacct 480
```


tcaccggcgt gtacgggttc tgggagtacg tg

512

<210> 1032

<211> 419

<212> DNA

<213> Zea mays

<220>

<221> unsure

<222> (1)..(419)

<223> unsure at all n locations

<400> 1032

gacaaggaga gcatgtaccc cttgctcaac ttccttcgcg cccacaacta caaggggatg 60
accatgatgt tgaacgaag aatccgcagt ctcaagtgtc tgcaagggtgc gctgaggaag 120
gctgaggagc acctgtccac cctacaagct gatacccat actctgaatt tcaccacagg 180
ttccaggaac ttggtctgga gaaggggttg ggtgattgcg ctaagcgtgc acaggagact 240
atccacctcc tcttggaact cctggaggcc ccagatccgt ccaccctgga gaagttcctt 300
ggaacgatcc ccatggtgtt caatgtcgtt atcctctccc ctcatggnta ctctgctcaa 360
gctaattgtct tgggttaccc tgacaccgga ggccagggtg tctacatctt ggatcaagt 419

<210> 1033

<211> 421

<212> DNA

<213> Zea mays

<400> 1033

cccacgcgtc cggaaatcgc gggaagcaag gacaccgtgg ggcagtacga gtcccacatc 60
gcgttcactc ttctgggct ctaccgtgtc gtccatggca tcgatgtttt cgatcccaag 120
ttcaacattg tctccctgg agcagacatg agtgtttact accgtatac ggaaaccgac 180
aagagactca ctgccttcca tctgaaatc gaggagctca tctacagcga cgtcgagaac 240
tccgagcaca agttcgtgct gaaggacaag aagaagccga tcatcttctc gatggcgcgt 300
ctcgaccgcg tgaagaacat gacaggcctg gtcgagatgt acggcaagaa cgcgcgcctg 360
agggagctgg cgaacctcgt gatcgttgcc ggtgaccacg gcaaggagtc caaggacagg 420
g 421

<210> 1034
 <211> 421
 <212> DNA
 <213> Zea mays

 <400> 1034

 cggacgcgtg ggagagtttg tacccttgc tgaacttcct caaggctcat aactacaagg 60
 gcacgacgat gatgttgaat gacagaatcc aaagccttcg tggctccaa tcatccctga 120
 gaaaggcaga ggagtatcta ctgagtgttc ctcaagacac tccctactcg gagttcaacc 180
 ataggttcca agagcttggt ttggagaagg gttgggggtga cactgcgaag cgtgtactcg 240
 acacactcca cttgcttctt gaccttcttg aggcccctga tcctgccaac ttggagaagt 300
 tccttggaac tataccaatg atgttcaatg ttgttatact ttctcctcat ggctacttcg 360
 ctcagtccaa tgtgcttgga taccctgaca ctggcggtca ggttgtgtac attctggatc 420
 a 421

<210> 1035
 <211> 379
 <212> DNA
 <213> Zea mays

 <220>
 <221> unsure
 <222> (1)..(379)
 <223> unsure at all n locations

 <400> 1035

 ggcgcatctg tgcagcctgc gttctacgaa gcgttcggcc tgactgtgat cgagtccatg 60
 acgtgcggtc tgccaacgat cgcgacctgc catggtggcc ctgctgagat catcgtggac 120
 ggggtatctg gcctgcacat tgacccttac cacagcgaca aggccgcgga taccctggtc 180
 aacttctttg acaaagtcaa ggcagatccg agctactggg acaagatctc acagggcggc 240
 ctgcagagaa tttatgagaa gtacacctgg aagctctact ccgagaggct gatgacctg 300
 accggcgtgt acgggttctg gaagtacgtg agcaacctgg agaggcgaga gacccgncgc 360
 tacatcgaga tggtctacg 379

<210> 1036
 <211> 424
 <212> DNA

<213> Zea mays

<400> 1036

```
ctcattgtta ccaggctggt gcctgatgct gctgggacta cgtgcggtca gcggctggag 60
aaggtcattg gtactgagca cacagacatc attcgcgttc cgttcagaaa tgagaatggc 120
atcctccgca agtggatctc tcgttttgat gtctggccat acctggagac atacactgag 180
gatgtttcca gtgaaataat gaaagaaatg caggccaagc ctgaccttat cattggcaac 240
tacagcgatg gcaacctagt cgccactctg ctgcacaca agttgggagt cactcagtgt 300
accatcgctc atgccttgga gaaaacaaa taccccaact cggacatcta cttggacaag 360
ttcgacagcc agtaccactt ctcttgccag ttcacagctg accttattgc catgaaccac 420
actg 424
```

<210> 1037

<211> 447

<212> DNA

<213> Zea mays

<400> 1037

```
gacatgagtg ttactaccc gtatacgga accgacaaga gactcactgc cttccatcct 60
gaaatcgagg agtcatcta cagcgacgtc gagaactccg agcacaagtt cgtgctgaag 120
gacaagaaga agccgatcat cttctcgatg gcgcgtctcg accgctgaa gaacatgaca 180
ggcctggtgg agatgtacgg caagaacgcg cgctgaggg agctggcgaa cctcgtgatc 240
gtcgccggtg accacggcaa ggagtccaag gacagggagg agcaggcgga gttcaagaag 300
atgtacagcc tcatcgacga gtacaagttg aagggccata tccggtggat ctcggcgcag 360
atgaaccgtg tccgcaacgg ggagctgtac cgctacattt gtgataccaa gggcgcatc 420
gtgcaacctg cgttctacga agcgttc 447
```

<210> 1038

<211> 409

<212> DNA

<213> Zea mays

<220>

<221> unsure

<222> (1)..(409)

<223> unsure at all n locations

<400> 1038

gtgcaacatt gtctcccttt agcatactga gtgtttacta cccgtatacg gaaaccgaca 60
agagactcac tgccttccat cctgaaatcg aggagctcat ctacagcgac gtcgagaact 120
ccgagcacaa gttcgtgctg aaggacaaga agaagccgat catcttctcg atggcgcgtc 180
tcgaccgcgt gaagaacatg acaggcctgg tcgagatgta cggcaagaac gcgcgcctga 240
gggagctggc gaacctcgctg atcgctgccg gtgaccacgg caaggagtcc aaggacaggg 300
aggagcaagc ggagttcaag aagatgtaca gcctcatcga cgagtacaag ttgaaaggcc 360
atatccggtg gatctcggcg cagatgaacc gcgtncgcaa cggggagct 409

<210> 1039

<211> 418

<212> DNA

<213> Zea mays

<400> 1039

atctcacagg gcggcctgca gagaatctat gagaagtaca cctggaagct ctactccgag 60
aggctgatga ccctgaccgg cgtgtacggg ttctggaagt acgtgagcaa cctggagagg 120
cgcgagaccc gccgctacat cgagatgttc tacgccctga agtaccgtag cctggcaagc 180
caggttccgc tgtccttcga ttagtacggg gaaagaagaa gaagaagaag cccaggccgg 240
agaaccatcg cctgcatttc gatctgtttc accgcaattc gcattgttag tcgtgtattg 300
gagttatgtg tacttggttt ccaagaactt tggttccttc tcgttttttt tccttgtttg 360
agcgtttttg ggcagcgctg gcctggttcc tagtatggtg ggaattggct gcaccttt 418

<210> 1040

<211> 439

<212> DNA

<213> Zea mays

<400> 1040

cccgtatacg gaaaccgaca agagactcac tgccttccat cctgaaatcg aggagctcat 60
ggacagcgac gtcgagaact ccgagcacaa gttcgtgctg aaggacaaga agaagccgat 120
catcttctcg atggcgcgtc tcgaccgcgt gaagaacatg acaggcctgg tggagatgta 180
cggcaagaac gcgcgcctga gggagctggc gaacctcgctg atcgctgccg gtgaccacgg 240

caaggagtcc aaggacaggg aggagcatgc tgagttcaag aagatgtaca gcctcatcga 300
cgagtacaag ttgaagggcc atatccggtg gatctcggcg cagatgaacc ggggccgcaa 360
acgggagctg taccgctaca tttgtgatac caagggcgca ttccggcagc ctgcgttcta 420
cgaagcgttc ggctgact 439

<210> 1041
<211> 392
<212> DNA
<213> Zea mays
<400> 1041

ctccgaagat cctcattggt accaggctgt tgctgatgc tgctgggact acgtgcgggc 60
agcggctgga gaaggctcatt ggtactgagc acacagacat cattcgcgtt cccttcagaa 120
atgagaatgg catcctccgc aagtggatct ctcgttttga tgtctggcca tacctggaga 180
catacactga ggatgtttcc agtgaaataa tgaaagaaat gcaggccaag cctgacctta 240
tcattggcaa ctacagcgat ggcaacctag tcgccactct gctcgcgcac aagttgggag 300
tcactcagtg taccatcgct catgccttgg agaaaaccaa atacccaac tcggacatat 360
acttgacaaa attcgacagc cagtaccact tc 392

<210> 1042
<211> 418
<212> DNA
<213> Zea mays
<400> 1042

cgcgtctcga ccgctgaag aacatgacag gcctgggtgga gatgtacggc aagaacgcgc 60
gcctgagggga gctggcgaac ctcgatgatc tcgccggtga ccacggcaag gagtccaagg 120
acagggagga gcatgcggag ttcaagaaga tgtacagcct catcgacgag tacaagttga 180
agggccatat ccggtggatc tcggcgcaga tgaaccgcgt ccgcaacggg gagctgtacc 240
gctacatttg cgataccaag ggcgcattcg tgcagcctgc gttctacgaa gcgttcggcc 300
tgactgtgat cgagtccatg acgtgcggtc tgccaacgat cgcgacctgc catggtggcc 360
ctgctgagat catcgtggac ggggtatctg gcctgcacat tgacccttac cacagcga 418

<210> 1043
 <211> 436
 <212> DNA
 <213> Zea mays

<220>
 <221> unsure
 <222> (1)..(436)
 <223> unsure at all n locations

<400> 1043

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gccaggcgga cccgagccac tggagcaaga tctcccaggg cgggctccag cgtagcgagg 60
agaagtacac ctggaagctc tactcggaga ggctgatgac cctcaccggc gtgtacgggt 120
tctggaagta cgtgtccaac ctggagaggc gcgagacccg gcggtacctg gagatgctgt 180
acgcgctcaa gtaccgcacc atggcgagca ccgtgccgct ggccgtggag ggagagccct 240
ccagcaagtg atgcgcgacg gcggccacag acctgatcga tcgatgagcg agagggagca 300
ctcggagtgt cgtgtctttt cccttgccat ttctttcttt tttcccttc ccggaggcga 360
aaaaaagagt ctgcttttgc taggcggcgg gcgttcggtg ctgctctttg cttcaagagt 420
taaanttacc tacctt 436
```

<210> 1044
 <211> 376
 <212> DNA
 <213> Zea mays

<400> 1044

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gtttgtaccc cttgctgaac ttcctcaagg ctcataacta caagggcacg acgatgatgt 60
tgaatgacag aatccaaagc cttcgtgggc tccaatcatc cctgagaaag gcagaggagt 120
atctactgag tgttctcaa gacactccct actcggagtt caaccatagg ttccaagagc 180
ttggcttgga gaagggttgg ggtgacactg cgaagcgtgt actcgacaca ctccacttgc 240
ttctcgacct tctggaggcc cctgatcctg ccaacttgga gaagttcctt ggaactatac 300
caatgatggt caacgttggt atcctgtctc ctcatggcta cttegccag tccaatgtgc 360
ttggataccc tgacac 376
```

<210> 1045
 <211> 412
 <212> DNA

<213> Zea mays
 <400> 1045

ctccgaagat cctcattggt accaggctgt tgctgatgc tgctgggact acgtgcgggg 60
 atcggctgga gaaggtcatt ggtactgagc acacagacat cattcgcgtt cccttcagaa 120
 atgagaatgg catcctccgc aagtggatct ctcgttttga tgtctggcca tacctggaga 180
 catacactga ggatgtttcc agtgaaataa tgaaagaaat gcaggccaag cctgacctta 240
 tcattggcaa ctacagcgat ggcaacctag tcgccactct gctcgcgcac aagttgggag 300
 tcactcagtg taccatcgct catgccttgg agaaaaccaa atacccaac tcggacatat 360
 acttgacaaa attcgacagc cagtaccact tctcttgcca gttcacagct ga 412

<210> 1046

<211> 424

<212> DNA

<213> Zea mays

<400> 1046

ggcaactaca gcgatggctt cctagtcttc actctgctcg cacacaagtt gggagtgact 60
 cagtgtacca tcgctcatgc cttggagaaa accaaatacc ccaactcgga catctacttg 120
 gacaagttcg acagccagta ccacttctct tgccagttca cagctgacct tattgccatg 180
 aaccacactg atttcatcat caccagcaca ttccaagaaa tcgcgggaag caaggacacc 240
 gtggggcagt acgagtccca catcgcgttc actcttctct ggctctaccg tgctgtccat 300
 ggcacatgatg ttttcgatcc caagttcaac attgtctccc ctggagcaga catgagtgtt 360
 tactaccgct atacggaaac cgacaagaga ctactgcct ttcactctga aatcgaggag 420
 ctca 424

<210> 1047

<211> 433

<212> DNA

<213> Zea mays

<400> 1047

gaagatgttt gacctcatcg agcagtacaa cctgaacggg cacatccgct ggatctgggc 60
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cttcgtgcag cctgctttct acgaggcttt cgggctgacg gtgggtgagg ccatgacctg 180
 cggcctgccc acgtttgcca cagcctacgg cgggtccggcc gagatcatcg tgcacggcgt 240
 gtctggctac cacatcgacc cttaccaggg cgacaaggcg tcggccctgc tcgtggactt 300
 cttcgacaag tgccaggcgg acccgagcca ctggagcaag atctcccagg gcgggctcca 360
 gcgtatcgag gagaagtaca cctgtaagct ctactcggag aggctgatga ccctaacggc 420
 gtgtacgggt tct 433

<210> 1048
 <211> 447
 <212> DNA
 <213> Zea mays

<220>
 <221> unsure
 <222> (1)..(447)
 <223> unsure at all n locations

<400> 1048

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 gtcaggttgt gtacattctg gatcaagtcc gtgctttgga gaatgagatg cttctgagga 180
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 atgctgctgg gactacgtgc ggtcagcggc tggagaaggc cattggtact gagcacacag 300
 acatcattcg cggtccgttc agaaatgaga atggcatcct ccgcaagtgg atctctcggt 360
 ntgatgtctg gccatacctg gagacatata ctgaggatgt ttccagtga ataatgaaag 420
 aaatgcaggc caagcctgac cttatca 447

<210> 1049
 <211> 383
 <212> DNA
 <213> Zea mays

<400> 1049

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 gcgtccgcaa cggcgagctg taccgctaca tctgcgacac caagggcgcc ttcgtgcagc 120
 ctgctttcta cgaggctttc gggctgacgg tgggtgaggc catgacctgc ggccctgccca 180

cgtttgccac agcctacggc ggtccggccg agatcatcgt gcacggcgtg tctggctacc 240
 acatcgaccc ttaccagggc gacaaggcgt cggccctgct cgtggacttc ttcgacaagt 300
 gccaggcgga cccgagccac tggagcaaga tctcccaagg cgggcttcaa cgtatcgagg 360
 agaagtacac ctggaagctt tac 383

<210> 1050
 <211> 278
 <212> DNA
 <213> Zea mays

<400> 1050

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 cggctctgcca acgatcgca cctgccatgg tggccctgct gagatcatcg tggacgggggt 120
 atctggcctg cacattgacc cttaccacag cgacaaggcc gcggatatcc tgggtcaactt 180
 ctttgacaaa tgcaaggcag atccgagcta ctgggacaag atctcacagg gcggcctgca 240
 gagaatctat gagaagtaca cctggaagct ctactccg 278

<210> 1051
 <211> 408
 <212> DNA
 <213> Zea mays

<400> 1051

aagatgtaca gcctcatcga cgagtacaag ttgaagggcc atatccggtg gatctcggcg 60
 cagatgaacc gcgtccgcaa cggggagctg taccgctaca tttgcgatac gaagggcgca 120
 ttcgtgcagc ctgcgttcta cgaagcgttc ggccctgactg tgatcgagtc catgacgtgc 180
 ggtctgccaa cgatcgcgac ctgccatggt ggccctgctg agatcatcgt ggacggggta 240
 tctggcctgc acattgaccc ttaccacagc gacaaggccg cggatatcct ggtcaacttc 300
 tttgacaaat gcaaggcaga tccgagctac tgggacaaga tctcacaggg cggcctgcag 360
 agaatctatg agaagtacac ctggaagctc tactccgaga ggctgatg 408

<210> 1052
 <211> 434
 <212> DNA
 <213> Zea mays

<400> 1052

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ccaagaaatc gcggaagca aggacaccgt ggggcagtac gaggccaca tcgcgttcac 120
tcttcctggg ctctaccgtg tcgtccatgg catcgatgtt ttcgatccca agttcaacat 180
tgtctcccct ggagcagaca tgagtgttta ctaccgtat acggaaccg acaagagact 240
cactgccttc catcctgaaa tcgaggagct catctacagc gacgtcgaga actccgagca 300
caagttcgtg ctgaaggaca agaagaagcc gatcatcttc tcgatggcgc gtctcgaccg 360
cgtgaagaac atgacaggcc tggtcgagat gtacgggaag aacgcgcgcc tgaggagct 420
ggcgaacctc gtga 434

<210> 1053

<211> 439

<212> DNA

<213> Zea mays

<400> 1053

agaacgcgcg cctgaggag ctggcgaacc tcgtgatcgt tgccggtgac cacggggagg 60
agtccaagga caggaggag caggcggagt tcaagaagat gtacagcctc atcgacgagt 120
acaagttgaa gggccatata cgggtgatct cggcgcagat gaaccgcgtc cgcaacgggg 180
agctgtaccg ctacatttgc gatacgaagg gcgcattcgt gcagcctgcg ttctacgaag 240
cgttcggcct gactgtgata gaggccatga cgtgcgggtc gccaacgata gcgacctgcc 300
atggtggccc tgctgagata atcgtggacg gggatatctg cctgcacatt gacccttacc 360
acagcgacaa ggccgcggat atcctggtca acttctttga caaatgcaag gcagatccga 420
gctactggga caagatctc 439

<210> 1054

<211> 416

<212> DNA

<213> Zea mays

<400> 1054

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cattggtact gagcacacag acatcattcg cgttcccttc agaaatgaga atggcatcct 120

ccgcaagtgg atctctcggt ttgatgtctg gccatacctg gagacatata ctgaggatgt 180
 ttccagtgaataaatgaaag aaatgcacgc caagcctgac cttatcattg gcaactacag 240
 cgatggcaac ctagtccca ctctgctcgc gcacaagttg ggagtcactc agtgtaccat 300
 cgctcatgcc ttggagaaaa ccaaataccc caactcggac atatacttgg acaaattcga 360
 cagccagtac cacttctctt gccagttcac agctgacctt attgccatga accaca 416

<210> 1055
 <211> 375
 <212> DNA
 <213> Zea mays

<400> 1055

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 atcaacagcg acgtcgagaa ctccgagcac aagttcgtgc tgaaggacaa gaagaagccg 180
 atcatcttct cgatggcgcg tctcgaccgc gtgaagaaca tgacaggcct ggtggagatg 240
 tacggcaaga acgcgcgcct gagggagctg gcgaacctcg tgatcgctcg cggtgaccac 300
 ggcaaggagt ccaaggacag ggaggagcat gcggagttca agaagatgta cagcctcatc 360
 gacgagtaca agttg 375

<210> 1056
 <211> 387
 <212> DNA
 <213> Zea mays

<400> 1056

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 accgtggggc agtacgagtc ccacatcgcg ttactcttc ctgggtctta ccgtgtcgtc 120
 catggcatcg atgttttcga tccaagtcc aacattgtct ctcttgagc agacatgagt 180
 gtttactacc cgtatacggg aaccgacaag agactcactg ccttccatcc tgaaatcgag 240
 gagctcatct acagecgacgt cgagaactcc gagcacaagt tcgtgctgaa ggacaagaag 300
 aagccgatca tcttctcgat ggcgcgtctc gaccgcgtga agaacatgac aggcctggtg 360
 gagatgtacg gcaagaacgc gcgcctg 387

<210> 1057
 <211> 383
 <212> DNA
 <213> Zea mays

<400> 1057

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 tacgctgagg atgtttccag tgaaataatg aaagaaatgc aggccaagcc tgaccttacc 120
 attggcaact acagcgatgg caacctagtc gccactctgc tcgcgcacaa gttgggagtc 180
 actcagtgtg ccatcgctca tgccttggag aaaaccaaact accccaactc ggacatctac 240
 ttggacaagt tcgacagcca gtaccacttc tcttgccagt tcacagctga ccttattgcc 300
 atgaaccaca ccgatttcat catcaccagc acattccaag aaatcgcggg aagcaaggac 360
 accgtggggc agtacgaggt cca 383

<210> 1058
 <211> 360
 <212> DNA
 <213> Zea mays

<400> 1058

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 tttctacgag gctttcgggc tgacggtggt tgaggccatg acctgcggcc tgcccacgtt 120
 tgccacagcc tacggcggtc cggccgagat catcgtgcac ggcggtgtctg gctaccacat 180
 cgacccttac cagggcgaca aggcgtcggc cctgctcgtg gacttcttcg acaagtgcc 240
 ggcggaacccg agccactgga gcaagatctc ccagggcggg ctccagcgta tcgaggagaa 300
 gtacacctgg aagctctact cggagagggt gatgaccctc accggcgtgt accggttctg 360

<210> 1059
 <211> 404
 <212> DNA
 <213> Zea mays

<220>
 <221> unsure
 <222> (1)..(404)
 <223> unsure at all n locations

<400> 1059

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ggatgtctnc tcagatgagc cgcgtccgca acggggagct gtaccgctac atttgcgata 120

cgaagggcgc attcgtgcag cctgcgttct acgaagcggt cggcctgact gtgatcgagt 180

ccatgacgtg cggctctgcc acgatcgca cctgccatgg tggccctgct gagatcatcg 240

tggacgggggt atctggcctg cacattgacc cttaccacag cgacaaggcc gcggatatcc 300

tggtcaactt ctttgacaaa tgcaaggag atccgagcta ctgggacaag atctcacagg 360

gcggcctgca gagaatctat gagaagtaca cctggaagct ctac 404

<210> 1060

<211> 424

<212> DNA

<213> Zea mays

<400> 1060

gcgacaaggc gcgggatatc ctggtcaact tctttgacaa atgcaaggca gatccgagct 60

agtgggacaa gatctcacag ggcggcctgc agagaatcta tgagaagtac acctggaagc 120

tctactccga gaggctgatg accctgaccg gcgtgtacgg gttctggaag tacgtgagca 180

acctggagag gcgcgagacc cgccgctaca tcgagatggt ctacgccctg aagtaccgta 240

gcctggcaag ccaggttccg ctgtccttcg attagtagcg ggaaagaaga agaagaagaa 300

gccaggccg gagaaccatc gcctgcattt cgatctgttt caccgcaatt cgcattgtta 360

gtcgtgtatt ggagttatgt gtacttggtt tccaagaact ttggttcctt ctcgatatatt 420

ttcc 424

<210> 1061

<211> 337

<212> DNA

<213> Zea mays

<400> 1061

gtcgcattcg tgcagcctgc gttctacgaa gcgttcggcc tgactgtgat cgagtccatg 60

acgtgcggtc tgccaacgat cgcgacctgc catggtggcc ctgctgagat catcgtggac 120

ggggtatctg gcctgcacat tgacccttac cacagctgac aaggccgctg atatcctggt 180

caacttcttt gacaaatgca aggcagatcc gagctactgc gacaagatct cacagggcgg 240
cctgcagaga atctatgaca agtgcacctg gaagctctac tccgagaggc tgatgaccct 300
gaccggcgtg tacgggttct ggaagtacgt gagcaac 337

<210> 1062
<211> 384
<212> DNA
<213> Zea mays

<400> 1062

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atcatcttct cgatggcgcg tctcgaccgc gtgaagaaca tgacaggcct ggtggagatg 120
tacggcaaga acgcgcgcct gagggagctg gcgaacctcg tgatcgtcgc cggagaccac 180
ggcaaggagt tcaaggacag ggaggagcag gcggagttca agaagatgta cagcctcatc 240
gacgagtaca agttgaaggg ccatatccgg tggatctcgg cgcagatgaa ccgcgtgcgc 300
aacggtgagc tgtaccgcta catttgcat accaagggcg cattcgtgca gcctgcgttc 360
tacgaaacgt tcggcctgac tgtg 384

<210> 1063
<211> 413
<212> DNA
<213> Zea mays

<400> 1063

ggcaaccctt ccaaggacaa ggaggagcat gccgagttca agaagatggt tgacctcatg 60
gagcagtaca acctgaacgg gcacatccgc tggatctccg ccagatgaa ccgcgtccgc 120
aacggcgagc tgtaccgcta catctgcgac accaagggcg ccttcgtgca gcctgctttc 180
tacgaggctt tcgggctgac ggtgggttgag gccatgacct gcggcctgcc cacgtttgcc 240
acagcctacg gcggtccggc cgagatcatc gtgcacggcg tgtctggcta ccacatcgac 300
ccttaccagg gcgacaaggc gtccggccctg ctctgggact tcttcgacaa gtgccaggcg 360
gacccgagcc actggagcaa gatctcccat ggccgggtcc agcgtatcga gga 413

<210> 1064
<211> 306
<212> DNA

<213> Zea mays

<400> 1064

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ctctaccgtg tcgtccatgg catcgatgtt ttogatccca agttcaacat tgtctcccct 120
ggagcagaca tgagtgttta ctaccggtat acggaaaccg acaagagact cactgccttc 180
catcctgaaa tcgaggagct catctacagc gacgtccaga actccgagca caagttcgtg 240
ctgaaggaca agaagaagcc gatcatcttc tcgatggcgc gtctcgaccg cgtgaagaac 300
atgaca 306

<210> 1065

<211> 379

<212> DNA

<213> Zea mays

<400> 1065

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ggatccatggc atcgatgttt tcgatcccaa gttcaacatt gtctcccctg gagcagacat 120
cactgtttac taccgtata cggaaaccga caagagactc actgccttgc atcctgaaat 180
cgaggagctc atctacagcg acttcgataa ctccgagcac aatttcatgc tgaaggacta 240
catgatgccg atcatcttct cgatggcgcg tctataccgc gtgaagaaca tgactggcct 300
gatcgagatg tacggcatga tcgcgcgcct gagggagctg tcgaacctcg tgatcgttgc 360
cggtgaccac tgcaaggag 379

<210> 1066

<211> 352

<212> DNA

<213> Zea mays

<400> 1066

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gcattcgtgc agcctgcgtt ctacgaagcg ttcggcctga ctgtgatcga gtccatgacg 120
tgcggtctgc caacgatcgc gacctgccat ggtggccctg ctgagatcat cgtggacggg 180
gtatctggcc tgcacattga cccttaccac agcgacaagg ccgcggatat cctgggtcaac 240

ttctttgaca aatgcaaggc agatccgagc tactgggaca agatctcaca gggcggcctg 300
cagagaatct atgagaagta cacctggaag ctctactccg agaggctgat ga 352

<210> 1067
<211> 326
<212> DNA
<213> Zea mays

<400> 1067

gaaatcgagg agctcatcaa cagcgacgtc gagaactccg agcacaagtt cgtgctgaag 60
gacaagaaga agccgatcat cttctcgatg gcgcgtctcg accgcgtgaa gaacatgaca 120
ggcctgggtgg agatgtacgg caagaacgcg cgcctgaggg agctggcgaa cctcgtgatc 180
gtcgccgggtg accacggcaa ggagtccaag gacagggagg agcaggccga gttcaagaag 240
atgtacaggc tcacgcacga gtacaagttg gagggccata tccggtggat ctaggcgcag 300
atgaaccggg ttccgcacgg ggagct 326

<210> 1068
<211> 251
<212> DNA
<213> Zea mays

<400> 1068

acttcccgta caccgagtcg cacaagaggt tgacctccct tcactcggag attgaggagc 60
gtcctgtaca gccaaaccga gaacacggag cacaagttcg ttctgaacga caggaacaag 120
ccaatcatct tctccatggc tcgtctcgac cgtgtgaaga acttgactgg gctgggtggag 180
ctgtacggcc ggaacaagcg gctgcaggag ctggtgaacc tcgtggtcgt ctgcggcgac 240
catggcaacc c 251

<210> 1069
<211> 424
<212> DNA
<213> Zea mays

<400> 1069

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cgtgtccaac ctggagaggc gcgagacccg gcggtacctg gagatgctgt acgcgctcaa 120

gtaccgcacc atggcgagca ccgtgccgct ggccgtggag ggagagccct ccagcaagtg 180
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cgtgtctttt cccttgccat ttctttcttt atttccttc ccggaggcga aaaaaagagt 300
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taccttgtca aggtcttgat ccatcattga tcccagtgac gctatgttag gagtctgatg 420
gact 424

<210> 1070
<211> 421
<212> DNA
<213> Zea mays

<400> 1070

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a 421

<210> 1071
<211> 342
<212> DNA
<213> Zea mays

<220>
<221> unsure
<222> (1)..(342)
<223> unsure at all n locations

<400> 1071

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cgaaccgaga acacggagca caagttcgtt ctgaacgaca ggaacaagcc aatcatcttc 120
tccatggctc gtctcgaccg tgtgaagaac ttgactgggc tggaggagct gtacggccgg 180

aacaagcggc tgcaggagct ggtgaacctc gtggctcgtct gcggcgacca tggcaaccct 240
 tccaaggaca aggaggagca ggccgagttc aagaagatgt ttgacctcat cgagcagtac 300
 aacctgaacg ggcacatncg ctggatctcc gnccagatga ac 342

<210> 1072
 <211> 480
 <212> DNA
 <213> Zea mays

<220>
 <221> unsure
 <222> (1)..(480)
 <223> unsure at all n locations

<400> 1072

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 taacaataag ttttaaccaac aaaaccggaa tccaattgct ccggcaaggt cccctaagga 120
 aggctaagga ccaccgggtca accctacagg ctgataccca aaaccctgaa tttcaccaca 180
 ggttcaagga acttggcctg gaaaagggtt ggggtgattg ccctaagcgt gcaaaggaaa 240
 ctatccacct cctcttggac ctcttgagg cccagatcc gtccaccctg gagaagtctc 300
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 aagctaattgt cttgggttac cctgacaccg gaggccaggt tgtctacatc ttggatcaag 420
 tgcgcgctat ggagaacgaa atgctgctga ggatcaagca gtgtggtctt gacatcacgc 480

<210> 1073
 <211> 420
 <212> DNA
 <213> Zea mays

<400> 1073

cccacgcgtc cgcaagatct cacagggcgg cctgcagaga atctatgaga agtacagggtg 60
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 gagcaacctg gagaggcgcg agaccgcgct ctacatcgag atgttctacg ccctgaagta 180
 ccgtagcctg gcaagccagg ttccgctgtc cttcgattag tacggggaaa gaaggagaag 240
 aagaagaaga agcccaggcc ggagaacctt cgctgcatt tcgatctgtt tcaccgcaat 300

tcgcattggt agtcgtgtat tggagttatg tgtacttggg ttccaagaac tttggttcct 360
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<210> 1074
 <211> 394
 <212> DNA
 <213> Zea mays

<400> 1074

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 cgccggaaac aaggacaccg tcggccagta cgagtcacac atggcgttca caatgcctgg 180
 cctgtaccgc gttgtccacg gcattgatgt gttcgacccc aagttcaaca tcgtgtctcc 240
 tggcgcgagc ctgtccatct actttccgta caccgagtcg cacaagaggc tgaccttcct 300
 tcacccggag attgaagagc ttctgtacag ccaaaccgag aacacggagc acaagttccg 360
 ttctgaacga caggaacaag ccaatcattt tttc 394

<210> 1075
 <211> 403
 <212> DNA
 <213> Zea mays

<400> 1075

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 catctttctc atggctcgtc tcgaccgtgt gaagaacttg actgggctgg tggagctgta 180
 cggccggaac aagcggctgc aggagctggg gaacctcgtg gtcgtctgct gcgaccatgg 240
 caacccttcc aaggacaagg tggagcaggc cgagttcaag aagatgtttg acctcatcga 300
 gcattacaac ctgaacgggc acattcggtg gatcttcgcc catatgaact cgcgtccgta 360
 acggcgagct gttccgttac atttgctaca ccaaggtctc tag 403

<210> 1076
 <211> 353
 <212> DNA
 <213> Zea mays

<220>
 <221> unsure
 <222> (1)..(353)
 <223> unsure at all n locations

<400> 1076

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ggtgtctagc ggcggcatgg acccttacca gggctacaag gcgtcggccc tgctcgtgga 120
cttcttcgac aagtgccagg cggacccgag ccaactggagc aagatctccc atggcgggct 180
ccagcgtatc gaggagaagt acacctggaa gctctactcg gagaggctga tgacctcac 240
cggcgtgtac gggttctgga agtacgtgtc caacctggag aggcgcgaga cccgacggta 300
cctggagatg ctgtacgcgc tcaagtaccg caccatggcg agcaccgtgc cgc 353
```

<210> 1077
 <211> 253
 <212> DNA
 <213> Zea mays

<400> 1077

```
acgaacgttc ggctgactg tgatcgagtc catgacgtgc ggtctgcaa cgatctgtac 60
cggccatggt ggcctgctg agatcatcgt ggacggggta tctggcctgc acattgaccc 120
ttaccacagc gacaaggccg cggatatact ggtcaacttc tttgacaaat gcaagggaga 180
tccgagctac tgggacaaga tctcacatgg cggcctgcag agaatctatg agaagtacac 240
ctggaatctc tac 253
```

<210> 1078
 <211> 298
 <212> DNA
 <213> Zea mays

<400> 1078

```
ctttttcctt tccggtggcg aatTTTTTgt agtctgcttt tgctaggcgg cgggcgttcg 60
ttgctgctct ttgcttcaag agttaaatTT acctaccttg tcaaggtctt gttccatcat 120
tgatccgggt gtcgctttta gtagtctgat ggactgttag tagtttgctg tcgctcggtt 180
gagagggaaac ggtggtggtg gtggtgtgtg tgcagtcggg tgtggtgctc cctttgtttc 240
ctggatggga tgttgctcct tgaataataa tcgtagtggc cttggagccc ttttcctg 298
```

<210> 1079
 <211> 256
 <212> DNA
 <213> Zea mays

 <400> 1079

 ccttggtgcg tgtttgctcg ccacaagat ggggtgttact cactgtacca ttgccaggc 60
 ggttgagaaa actaagtagc ctaactccga cctctactgg aagaagtttg aggatcacta 120
 ccacttctcg tgccagttca ccactgactt gattgcaatg aaccatgccg acttcatcat 180
 caccagtacc ttccaagaga tcgccgaaa caaggacacc gtccgccaat acgagtcaca 240
 catggcgttc acaatg 256

<210> 1080
 <211> 151
 <212> DNA
 <213> Zea mays

 <400> 1080

 gcctggtcga gatgtacggc aagaactctc gcctgaggga gctggcgaaac ctcgtgagcg 60
 ttgccggcga ccacggcaag gagtccaagg acagggagga gcaggcggag ttcaagaaga 120
 tgtacagcct catcgacgag tccaagttga a 151

<210> 1081
 <211> 208
 <212> DNA
 <213> Zea mays

 <400> 1081

 atcgttcgca agtggatctc gcgatttgaa gtctggccgt acctggagac ttacactgat 60
 gacgtggcgc atgagattgc tggagagctt caagccaatc ctgacctgat catcggaac 120
 tacagtgacg gaaaccttgt tgcgtgtttg ctgccccaca agatgggtgt tactcactgt 180
 accattgccc atgcgcttga aaaactaa 208

<210> 1082
 <211> 240
 <212> DNA
 <213> Zea mays

<400> 1082

cggacgcgtg ggcggacgcg tggggtttac taccgtata cggaaaccga caagagactg 60
actgccttcc atcctgaaat cgaggagctc atctacagcg acgtcgagaa ctccgagcac 120
aagttcgtgc tgaaagacaa gaagaagccg atcatcttct cgatggggcg tcttgacccc 180
gtgaagaaca tgacaaggct gggcgagatg tacggcaaga acccgcgctt gaaggagctg 240

<210> 1083

<211> 393

<212> DNA

<213> Zea mays

<400> 1083

gaggagctgg cgaacctcgt gatcgttgcc ggtgaccacg gcaaggagtc caagggcagg 60
gatgagcagg cggagttcaa gaagatgtac agcctcatcg acgagtacaa gttgaagggc 120
catatccggg ggatctcggc gcagatgaac cgcgttcgca acggggaact gtaccgctac 180
atttgcgatt cgaaaggcgc atttcgtgcc agctgcgttc ttcgaaacgg tcgggctgac 240
tgggatcgaa tccatgacgt gcggtctgcc aacgatcgcg accttccatg gtgggccttc 300
tgaaaatatc gtggactggg tatttggcct ggacattgac cttttccaca gcgacaaggc 360
cttgatatt ccggttaacg tttttgacca atg 393

<210> 1084

<211> 318

<212> DNA

<213> Zea mays

<400> 1084

gggatgttgc tccttgaata ataatcgtag tggccttgga gcccttttcc tgaaataaga 60
gcagcatcct agtgcttcac tttgcaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa 120
aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa 180
aaaaaaaaaa aaaaaaaag ggaatcaaat caaaaatatc aaaacttaaa aaaattaata 240
agaaataaaa aaaatatact aatgattaac caaaataaaa acaaatatca atttattaaa 300
aactcaaaca aggaaaaa 318

<210> 1085
 <211> 451
 <212> DNA
 <213> Zea mays

 <400> 1085

 agcagacatg agtgtgtact acccgatac ggaaaccgac tagagactca ctgccttcca 60
 tcttgaatc gaggagctca tctacagcga cgtcgagaac tccgagcaca agttcgtgct 120
 gaaggacaag aagaagccga tcatcttctc gatggcgcgt ctcgaccgcg tgaagaacat 180
 gacaggcctg gtcgagatgt acggcatgaa cgcgcgcctg agggagctgg cgaacctcgt 240
 gatcgttgcc ggtgaccact gcaaggagtc caaggacagg gaggagcagg cggagttcaa 300
 gaagatgtac agcctcatcg acgagtacaa gttgaagggc catatccggt ggatctcggc 360
 gcagatgaac cgcgtccgca acggggagct gtaccgctac atttgcgata cgaagggcgc 420
 attcgtgcag cctgcgttct acgaagcgtt c 451

<210> 1086
 <211> 351
 <212> DNA
 <213> Zea mays

 <400> 1086

 gctagctctc tgttgaccat tgcgtattct gaaccatcga gccatggctg ccaagcgtac 60
 tggcctccac agtcttcgcg aacgccttgg tgccaccttc tctcccatc ccaatgaact 120
 gatagcactc ttttccaggt atgttcacca gggcaaggga atgcttcagc gccatcagct 180
 gcttgcgagg tttgatgcc tgtttgatag tgacaaggag aagtatgcac cctttgaaga 240
 cattcttcgt gctgctcacg aagcaattgt gctcccccca tgggttgac ttgctatcag 300
 gccaaaggcct cgtgtctggg attacattcg ggtgaatgta agtgagcttg c 351

<210> 1087
 <211> 220
 <212> DNA
 <213> Zea mays

 <400> 1087

 gcacgaggcc aggcgacgag cgccggtcgg tcgtcgccat cgacggcggc ctgttcgagc 60
 actacgccga gttcaggaag cgctggagg ccacgctggg ggagctgctc ggggaggagg 120

cgtctaggct ggtggaggct aagctcacca aggacgggtc tggcctcgga gccgccctca 180
 ttgcagctgc ccactcgcag tactgaacgc ccaacggccg 220

<210> 1088
 <211> 313
 <212> DNA
 <213> Zea mays

<400> 1088

cggagatgcg cgccggactg cgcaggacgg cggcagcaag atcaagatga tcgtctcctt 60
 cgtcgacaac ctccccacgg ggaacgaaga gggcgtcttc tacgccttgg accttggcgg 120
 aacgaacttc cgcgtgctgc gcgtgcagct ggccgggaag gacaggcgtg tgtgcaagcg 180
 agagtccaag gaggtgtcca tccctcctca cctcatgtca ggcaacgcac cggagctgtt 240
 tggcttcacg gcctcggcgc tagctaagta cgtcgccgcg gcgggagaaa gggacggcaa 300
 gcagagagag ctc 313

<210> 1089
 <211> 314
 <212> DNA
 <213> Zea mays

<400> 1089

gttcatctcc atgccgacct gactcggact cttgatttgc tcctcgcggg ggttcgggtcc 60
 catggcggca gctgcgctgg caatggcaga gcaggtggtg gccgagctcc gagtgagggtg 120
 tgagacgccg ccgtcgatgc tgcgcgaggt ggccgtggag atggcccgcg agatgggcgc 180
 ggggctggag aaggacggcg ggagcagggt caagatgctc ctctcctacg tcgataagct 240
 cccacagggg agagaggaag gattattcta tggattgacc ctaggaggaa cgaatttccg 300
 cgtcttgaaa gtgc 314

<210> 1090
 <211> 286
 <212> DNA
 <213> Zea mays

<400> 1090

ctcgcttcag tcttaggtat ttttatgtct ctcttttatt tcgagagttg cctgttccat 60

atggaaaaaa aaaacgagag ttaatgctga tcaaacagac gttgctgctg cgtttggcat 120
tcaggactcc ggacatctcc gcgatgcacc atgacggcac gcctgacctg agagtcgtgg 180
cggagaagct ggccgacaac ctcaggggtca gggacacgtc cttggacacg aggaagatgg 240
tggtcgagat ctgcgacatc gtcaccggga ggtctgcccc gctggc 286

<210> 1091
<211> 271
<212> DNA
<213> Zea mays

<400> 1091

cttacaaact ctggtggcat ggtagtaaac atggaatggg gcagtttctg gtcatcacat 60
ttgccaagaa ctcccttatga catctccctt gatgatgaga caaaaaccg caatgatcag 120
gggtttgaga aaatggtctc tgggatttat cttggggaaa ttgcaaggct ggtgctgcat 180
cgaatggctc tagaatcaga ttttcttggg gacgctgctg ataatctatg taccctcttc 240
acattgagca caccactcct cgctgcaatt c 271

<210> 1092
<211> 266
<212> DNA
<213> Zea mays

<400> 1092

caaagacaaa ttgctaggtg acttttagcca acaaaggact gtagttgcta ttgacggtgg 60
cctatacgag cactacaaga agttcagtgc ctgcctagag gcgacgtca cagacctgct 120
cggcgaggag gttgcctcat cggttggtgt caagttggcc aacgacggct caggaattgg 180
agctgcactt cttgctgctt cgcactccca gtatgctgaa gctgcatagt tctaggagct 240
cgggggtcct agtgtaacct tttttt 266

<210> 1093
<211> 307
<212> DNA
<213> Zea mays

<220>
<221> unsure
<222> (1) .. (307)

<223> unsure at all n locations

<400> 1093

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ccgcgatgca ccatgacggc acgcctgacc tgagagtcgt ggcggagaag ctggccgaca   60
acctcaggggt cagggacacg tccttggaca cgaggaagat ggtggtcgag atctgcgaca  120
tcgtcaccgg gacgtctgca cggctggccg cggcggggat cgtcgggatc ctcaggaaga  180
tcggtcgagc ggcgccaggc gacgagcgcc ggtacgtcgt cgcgatcgac ggcggcctgt  240
tcgagcacta cgccgagttc agggaagcgc ctgtagccac gcntagtgag ctgctcgggg  300
gagagcg                                           307
```

<210> 1094

<211> 260

<212> DNA

<213> Zea mays

<400> 1094

```
cccacgcgtc cgcccacgcg tccggataaa tccttagact tcgaaagttt gaaccctgggt   60
gagcagatat atgaaaagat gatttctgga atgtatcttg gagaaattgt ccggaggatc  120
ctgctgaaac tggctcatga tgcttcattg tttggggatg ttgttctcc gaaactggaa  180
cagctattta tactgaggac gccagatatg tcagccatgc accatgacac ctcacatgat  240
ctcaaacacc tgggagctaa                                           260
```

<210> 1095

<211> 277

<212> DNA

<213> Zea mays

<400> 1095

```
gaagataggc cgggacaaag taccaagcag tggcagtaaa atgccaagga ctgtaattgc   60
cttggatggg gggctctatg agcattacaa gaagttcagc agctgcgtcg aagcaactct  120
tacagacttg ctcggcgaag aggcctcttc ctccgtgggt gccaaagctgg ccaacgatgg  180
ctctggcatt ggagctgctc tccttgcagc ctcacactcc cagtatggcg agagtgacta  240
gtcttgaaaa ccggtgtgga tcgaacttcg agtgtag                                           277
```

<210> 1096

<211> 206
 <212> DNA
 <213> Zea mays

 <400> 1096

 gcagcatatg tggagcatgc aaatgcaatt cctaaatgga cggggttact gcctaaatct 60
 ggaaacatgg taattaatac ggaatgggga agcttttaa at ccggcaagct tcctctctca 120
 gaatacgaca aagccatgga ctttgaaagt ttgaaccctg gagagcagat atacgaaaaa 180
 atgatctctg gcatgtatct gggaga 206

<210> 1097
 <211> 343
 <212> DNA
 <213> Zea mays

 <220>
 <221> unsure
 <222> (1)..(343)
 <223> unsure at all n locations

 <400> 1097

 ggcattagtc aatgatacag tgggcacatt ggctggtggg agatatatgg ataccgatgt 60
 agttgcagct gtaatattn g cactgggtac aaatgcagca tatgtggagc atgcaa atgc 120
 aattcctaaa tggactgggt tactgcctaa atctggaaag atggtantta atacagagt 180
 ggggagcttc aaatccaaca aacttcctct ttcagaatat gacaaagnca ncnnncttga 240
 aagtttgaac ctggagagca gatattacga gaaatgn ttc tggatatgtac tcggagagat 300
 tgttcgaaga atntactgaa ntggccatga gctctctatt ggg 343

<210> 1098
 <211> 257
 <212> DNA
 <213> Zea mays

 <400> 1098

 gggtttttga ttgaagatgt ggttgggaaa gatgtggctc aatgcttaaa tgaagctctt 60
 gctaggagt gactaaatgt gcgagttact g cactgggtga atgacactgt ggggacgtta 120
 gctctaggtc attatcacga tgaggataca gtggctgctg tgataatcgg tgctggcacc 180
 aatgcttgct atatcgaacg cactgatgca attattaaat gtcagggtct tcttacaac 240

tctggtggca tggttgt 257

<210> 1099
<211> 286
<212> DNA
<213> Zea mays

<400> 1099

gactagatgt acggtagtag ctcggaatcg gctgagcaaa acctgggccc taagctgaag 60
gacattcttg gggttcctga tacttctctg gacgcaagat acatcactct tcatgtgtgc 120
gaccttgtcg cagagagaag tgcacgctg gctgctgctg gtatatatcg tattctgaag 180
aagctgggta aagacaaatt gctaggtgac tgatacaaac aaaggactgt agttgctatt 240
gacggtggcc tatacgagca ctacaagaag ttcagtgcct gcctag 286

<210> 1100
<211> 254
<212> DNA
<213> Zea mays

<400> 1100

gaaacatctg atctgaagat tgtggccgaa aattttgaac aaaacctaga gattacaggc 60
acatccttgg aggctcgtaa gctggtcgtt gaaatctgtg acattgtggc gacaagagca 120
gcccggctgg ctgctgcggg gcttgcaggg atcctcatga agatcgggag agatcacagc 180
gtcgaggacc aacggtcagt catcgccatc gacggaggac tgttcgagca ctacacccaaa 240
ttccgcccgt gctt 254

<210> 1101
<211> 303
<212> DNA
<213> Zea mays

<220>
<221> unsure
<222> (1) .. (303)
<223> unsure at all n locations

<400> 1101

tctcccttga tgatgagacg caaaatcgca atgatcaggg gtttgaaaaa atgatatctg 60

nggattttatc ttgggggaaat tgcaaggctg gtgctgcac gaatggctct agaatcagat 120
 gtcttttggtg atgccgctga taatctatca accccttcac attgagcaca ccacttctgg 180
 ctgcaattcg caaggacgat tcaccagatc tgagcgaagt cagaaggata ttgcaagacc 240
 atctgaagat accggacact cctctgacaa ctcggaagct agtcgtcaaa gtctgcgaca 300
 tcg 303

<210> 1102
 <211> 263
 <212> DNA
 <213> Zea mays

<400> 1102

gtttgttgac gatgatgaga agtgcgctaa catttcgaat ggcaagaagc gagatctagg 60
 gttcacgttt tcgttcccag tgaagcagcg ttctgtagct tccggtacgc ttgtcaagtg 120
 gacaaaggca ttttccatta atgatgctgt aggccaagat gtggtggctg aactgcaaac 180
 agccatggag aagcaaggtc tggacatgca tgtagctgca ttgattaatg atgctggttg 240
 gacgctggcg ggagcaagggt act 263

<210> 1103
 <211> 270
 <212> DNA
 <213> Zea mays

<400> 1103

ctttgttgac gatgatgaga agtgcgctaa catttcgaat ggcaagaaga cgagtctagg 60
 gttcacgttt tcgttcccag tgaagcagcg ttctgtagct tccggtacgc ttgtcaagtg 120
 gacaaaggca ttttccatta atgatgctgt aggccaagat gtggtggctg aactgcaaac 180
 agccatggag aagcaaggtc tggacatgca tgtagctgca ttgattaatg atgctggttg 240
 gacgctggcg ggagcaagggt actacgacaa 270

<210> 1104
 <211> 279
 <212> DNA
 <213> Zea mays

<400> 1104

gcgtcgagga ccaacgggtca gtcacgcgcca tcgacggagg actgttcgag cactacacca 60
aattccgccg gtgcttggag accacactgg gtgagctgct aggagacgag gcgtccaagg 120
cgggtggccat caagcatgcc gatgacggct caggaatagg tgctgccctg attgcagctt 180
cacagtctca gtacaaaaac gacttagtgg ccgtcaagca tgcagatgac ggttcaggag 240
tcaagtatgc agaagacaag cgtgcagatg acggttcag 279

<210> 1105
<211> 349
<212> DNA
<213> Zea mays

<400> 1105

tggcgacaag agcagcccgg ctggctgctg cggggcttgc agggatcctc atgaagatcg 60
ggagagatca cagcgtcgag gaccaacggg cagtcacgc catcgacgga ggactgttcg 120
agcactacac caaattccgc cgggtgcttg agaccacact gggtgagctg ctaggagacg 180
aggcgtccaa ggcgggtggcc atcaagcatg ccgatgacgg ctcaggaata ggtgctgccc 240
tgattgcagc ttcacagtct cagtacaaa acgacttagt ggccgtcaag catgcaatga 300
cggttcagga gtcaagtatg cagaagacaa gcgtgcagat gacggttca 349

<210> 1106
<211> 338
<212> DNA
<213> Zea mays

<400> 1106

ctttcgtgtc atccgggtcc aacttggcgg aagggacaga cgtgtcgtga agccacagta 60
tgaagaggtc tccattccgc ctcatcttat ggttggaact tctacggaac tatttgattt 120
cattgctgct gagttgaaa aatttgtgcg gactgaagga gaagatttcc acctaccaga 180
tagcaagcag agggaactgg gtttcacctt ttctttccca gtgcacaaa catctatatc 240
atcggggact ctaattaagt ggaccaaagg attttgcac aatggcacgg ttggagaaga 300
tgttgtggct gaattgagta gggccatgga aaggcagg 338

<210> 1107
<211> 263
<212> DNA

<213> Zea mays

<400> 1107

agcagagggga actgggtttc accttttctt tcccagtgc ccaaacatct atatcatcgg 60
ggactctaata taagtggacc aaaggatttt gcatcaatgg cacggttgga gaagatgttg 120
tggctgaatt gagtagggcc atggaaaggc agggctcttga tatgaaagtt gcagctctgg 180
ttaatgatac ttaggcacaca ttggctggtg ggagatatgc tgataatgat gttgttgctg 240
ctgtaatatatt gggcactggc aca 263

<210> 1108

<211> 119

<212> DNA

<213> Zea mays

<400> 1108

gatttccacc taccagatgg caagcagagg gaactggggtt tcaccttttc tttcccagtg 60
caccaaacad ctatatcatc ggggactcta attaagtggga ccaaaggctt ttgcatcaa 119

<210> 1109

<211> 277

<212> DNA

<213> Zea mays

<220>

<221> unsure

<222> (1)..(277)

<223> unsure at all n locations

<400> 1109

caggaacact catcaagtgg acaaagggtt tttccatcaa tggcacgggtt ggtgaagatg 60
ttgtttctga gttgagcagg gccatggaga ggcagggact agatatgaaa gctacggcat 120
tagtcaatga tacagtgggc acattggctg gtgggagata tatggatacc gatgtagttg 180
cagctgtaat attgggcact ggtacaaatg cagcatatgt ggagcatgca aatgcnnttc 240
ctaaatggac tgggttactg cctaaatctg gaaagat 277

<210> 1110

<211> 242

<212> DNA

<213> Zea mays

<400> 1110

tggttgatact gaaggtgaag atttccacct cccagagggg aggcagagag aacttggttt 60
cacgttttcc ttcccagtga accaaacatc aatatcatca ggaacactca tcaagtggac 120
aaaggggttt tccatcaatg gcacgggttg tgaagatgtt gtttctgagt tgagcagggc 180
catggagagg cagggactag atatgaaagt tacggcattg gtcaatgata cagttggcac 240
at 242

<210> 1111

<211> 250

<212> DNA

<213> Zea mays

<400> 1111

ggaagggaga aacgtgttgt caaacaacag tacgaggagg ttccattcc accgcatttg 60
atggtcggga cttccattga actatttgat ttcattgctg ctgcattggc taaatttggt 120
gatactgaag gtgatgattt ccacctcca gagggtaggc agagagaact tggtttcacg 180
ttttccttcc cgtgaaacca aacatcaata tcatcaggaa cactcatcat ttggacaaag 240
ggcttttcca 250

<210> 1112

<211> 330

<212> DNA

<213> Zea mays

<400> 1112

cggaggaaca aactttagag tgctgaaagt tgaagttggt gatgggtctg tggtcactcg 60
ccgtaaggtc gagcttcca tccctgagga attgattaag ggtacaattg aggagttatt 120
caactttggt gccgtgacct taaaggagtt cgtagaagca gaagatggta aagacgaaca 180
aagggcactt ggtttcacat tttctttccc agtcagacaa acatcagtat cttcagggtc 240
cttaattagg tggaccaaag ggtttttgat tgaagatgtg gttgggaaag atgtggctca 300
atgcttaaata gaagctcttg ctaggagtgg 330

<210> 1113

<211> 289

<212> DNA
 <213> Zea mays
 <400> 1113
 gaacgaagag ggcgtcttct acgccttgga ccttggcgga acgaacttcc gcgtgctgcg 60
 cgtgcactcg ccgggaaaga caggcgtgtg gccaaagcag actccaagga ggtgtccatc 120
 cctcctcacc tcatgtcagg caacgcgtcg gagctgtttg gttcatcgc ctccggcgcta 180
 gctaagtacg tcgccgcggc gggcgaaggg gacggcaggc agagagagct cgggttcacc 240
 ttctctttcc ccgtgcgcca gacgtcgatc gcgtcaggca cgctcatca 289

<210> 1114
 <211> 295
 <212> DNA
 <213> Zea mays
 <400> 1114
 cgagagtcca aggaggtgtc catccctcct cacctcatgt caggcaacgc atcgagagctg 60
 tttggcttca tcgcctccgc gctagccaag tacgtcgccg cggcgggcca aggggacggc 120
 aggcagagag agctcgggtt caccttctct tccccgtgc gccagacgtc gatcgcgta 180
 ggcacgtca tcaagtggac caaggcgttt tcggtcgacg acgtgtttgg tgaggatgtc 240
 gtcgccgagc tgcagacggc catggagaag caaggcgtcg acatgcgtgt ggcgg 295

<210> 1115
 <211> 277
 <212> DNA
 <213> Zea mays
 <400> 1115
 cggctcgagg gcaacgcacg ggagctgttt ggcttcatcg cctcggcgct agcaagtacg 60
 tcgccgcggc gggcgaaggg gacggcaggc agagagagct cgggttcacc ttctctttcc 120
 ccgtgcgcca gacgtcgatc gcgtcaggca cgctcatcaa gtggaccaag gcgttttcgg 180
 tcgacgatgc tgttggtgag gatgtcgatc ccgagctgca gacggccatg gagaagcaag 240
 gcgtcgacat gcgtgtggcg gcaactgatca acgatac 277

<210> 1116
 <211> 275

<212> DNA
 <213> Zea mays
 <400> 1116
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 aacgcgtcgg agctgtttgg cttcatcgcc tcggcgctac caagtacgtc gccgcggcgg 120
 gcgaacggga cggcaggcag agagagctcg ggttcacctt ctctttcccc gtgcgccaga 180
 cgtcgatcgc gtcaggcacg ctcacaaagt ggaccaaggc gttttcggtc gacgacgctg 240
 ttggtgagga tgcgtcgcc gagctgcaga cgccc 275

<210> 1117
 <211> 261
 <212> DNA
 <213> Zea mays
 <400> 1117
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 aggagaacag atttacgaga agttaacgtc aggaatgtat ttaggtgaaa ttgtaaggag 120
 ggtgctcctt aaaatatcat tgcagtcgc catttttggg gatattgacc aactaagct 180
 tcaaaccat ttccttctgc ggactccaca tatttcagca atgcaccatg acgaaacatc 240
 tgatctgaag attgtggcgc a 261

<210> 1118
 <211> 267
 <212> DNA
 <213> Zea mays
 <400> 1118
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 cccatttttg aatatgatca agaattagat aaggagagct taaatccagg agaacagatt 120
 tacgagaagt taacgtcagg aatgtattta ggtgaaattg taaggagggt gtccttaaa 180
 atatcattgc agtccgcat ttttggtgat attgaccaca ctaagcttca aaccatttc 240
 cttctgcgga ctccacatat ttcagca 267

<210> 1119
 <211> 296

<212> DNA
 <213> Zea mays
 <400> 1119
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 actgcaaaca gccatggaga agcaaggctt ggacatgcat gtagctgcat tgattaatga 120
 tgctgttggg acgctggcgg gagcaaggta ctacgacaaa gatgttgctg ctggtgtaat 180
 atttggcact ggcacaaacg cagcatatgt tgagaaggca aatgctattc caaaatggga 240
 gggtagagctg cccattcag gagacatggt catcaacatg gaatggggta acttct 296

<210> 1120
 <211> 307
 <212> DNA
 <213> Zea mays
 <400> 1120
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 ggcaaagtct attccaaaat gggaggggtga gctgccccat tcaggagaca tggatcatcaa 120
 catggaatgg ggtaacttct tctcatctca tctccccatc actgaatatg atcaagaatt 180
 agataaggag agcttaaata caggagaaca gatttacgag aagttaacgt caggaatgta 240
 tttaggtgaa attgtaagga gggtagctct taaaatatcg atgcagtcgg ccatttttgg 300
 tgatatt 307

<210> 1121
 <211> 197
 <212> DNA
 <213> Zea mays
 <400> 1121
 agatgttgct gctggtgtaa tatttggcac tggcaciaac gcagcatatg ttgagaaggc 60
 aaatgctatt ccaaaatggg agggtagact gcccattca ggagacatgg tcatcaacat 120
 ggaatggggg aacttcttct catctcatct cccatcact gaatatgatc aagaattaga 180
 taaggagagc ttaaatac 197

<210> 1122
 <211> 170

<212> DNA
 <213> Zea mays
 <400> 1122
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 gtcagccatg catcatgact cttcgcatga cctcaaaact cttggatcta aactgaagga 120
 tatagttggg gtcgcagata cttccctgga agtaagatac attactcgtc 170

<210> 1123
 <211> 306
 <212> DNA
 <213> Zea mays
 <400> 1123
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 actggcacaa atgcagctta tgtggaacat gcaaagtga ttctaaatg gaccgggctg 120
 ctacctagat cagggaaacat ggtaatcaac atggagtggg gaaacttcag atcagataaa 180
 cttccaaggt cggagtatga taaatcctta gacttcgaaa gtttgaaccc tggtagcag 240
 atatatgaaa agatgatttc tggaatgtat cttggagaaa ttgtccggac gatcctgctg 300
 aaactg 306

<210> 1124
 <211> 308
 <212> DNA
 <213> Zea mays
 <400> 1124
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 actggcacaa atgcagctta tgtggaacat gcaaagtga ttctaaatg gaccgggctg 120
 ctacctagat cagggaaacat ggtaatcaac atggagtggg gaaacttcag atcagataaa 180
 cttccaaggt cggagtatga taaatcctta gacttcgaaa gtttgaaccc tggtagcag 240
 atatatgaaa agatgatttc tggaatgtat cttggagaaa ttgtccggag gatcctgctg 300
 aaactggc 308

<210> 1125
 <211> 315

<212> DNA
 <213> Zea mays
 <400> 1125
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 attgggcact ggcacaaatg cagcttatgt ggaacatgca aatgtgattc ctaaattggac 120
 cgggctgcta cctagatcag ggaacatggt aatcaacatg gagtggggaa acttcagatc 180
 agataaactt ccaaggctcg agtatgataa atccttagac ttcgaaagtt tgaaccctgg 240
 tgagcagata tatgacaaga tgatttctgg aatgtatctt ggagaaattg tccggacgat 300
 cctgctgaaa ctggc 315

<210> 1126
 <211> 442
 <212> DNA
 <213> Zea mays
 <400> 1126
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 cacaaaaccg caatgatcag gtgaacaccc tgtgcaaadc atgttatgta atagttgtac 120
 cttttgttag tattgccgaa caaatttgac attgatgcag gggtttgaga aaatggcttc 180
 tgggatttat cttggggaaa ttgcaaggct ggtgctgcat cgaatggctc tagaatcaga 240
 tttttttggt gacgctgctg ataatctatg taccoccttc acattgagca caccactcct 300
 cgctgcaatt cgcaaggacg attcaccaga tctgagcgaa gtcaggaaga tactgcaaga 360
 acatctgaag gtcagctttc ctgaccttca tgaagtcaaa catgtgtttt cctccaacct 420
 gtgaagggtc tgggtatttt gc 442

<210> 1127
 <211> 436
 <212> DNA
 <213> Zea mays
 <400> 1127
 ctgaaaactc gaaggctggt tgtcaaagtg tgcgacatcg tcacccggag agctgcccgg 60
 ctagccgcgcg ctggtattgt cgggatactg aaaaagctcg gccgtgatgg gagcggtggt 120
 gcttcaagcg ggagaacggg agggcagatg aggcggacgg tggttgccat cgaggggtggg 180

ctgtacgagg gctacccggt gttcagggag tacctagacg aagccctggt ggagatcttg 240
 ggggaggagg tggcgcggaac ggtggcgctg aggggtgacag tggatgggtc tggggccggc 300
 gctgccctcc ttgccgccgt acattcgctg aatagacagc aagggtccat atagggagaa 360
 gggaagatgg tgatacagcc cctctgtgc aaatgtaaaa aggaacatta tttgatatct 420
 atattcatat atatat 436

<210> 1128
 <211> 443
 <212> DNA
 <213> Zea mays

<400> 1128

caaacaacag tatgaggagg tttccattcc accacatttg atggtcggga cttccatggg 60
 actatcttgat ttcattgctg ctgcattggc taaatttgct ggtactgaag gtgaagattt 120
 ccaactccca gagggtagac agagagaact tggtttcaact ttttccttcc cggatgaacca 180
 aacatcaata tcatcaggaa cactcatcaa gtggacaaag ggcttttcca tcaatggcac 240
 ggttggtgaa gatgttgatt ctgagttgag cagggccatg gagaggcagg ggctagatat 300
 gaaagttacg gcattagtca atgatacagt cggcacattg gctgggtggga gatatatgga 360
 taccgatgta gttgcagctg taatattggg cactggtaca aatgcagcat atgtggagca 420
 tgcatatgca attcctaaat ggg 443

<210> 1129
 <211> 419
 <212> DNA
 <213> Zea mays

<220>
 <221> unsure
 <222> (1)..(419)
 <223> unsure at all n locations

<400> 1129

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 tcctctcttg ccttgatagg tgctggagca atcctcgctg tctggatatc cttggttgta 120
 gtgagatctc tcgactctgt cccgttgctc ccaggcatat tggagctagt cgggctcagc 180

tactctggat ggtttgtgta ccgatacctg ctttttcagg aaaaccggaa agaattggcc 240
 ggtgttatcg atgatataaa gagaaggatt gttggcgatg atgaatagct gtttcctggg 300
 ttgtaattct atttatctcg ccttgtttgg ttctgaggaa ttgaaaaata atccaatggg 360
 gaagtgagaa agcactntct agttattggg tntaattcat ggngtcctaaa caggctcct 419

<210> 1130
 <211> 430
 <212> DNA
 <213> Zea mays

<400> 1130

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 tcggaagggt gaacttccca tccctgagga attgaccaag ggtacaattg aggagctatt 120
 caactttggt gccatgactc taaaggaatt tgtagaaaca gaagatggga acgatgaaca 180
 acgagcgctt ggtttcacat tttctttccc agttagacaa acatcagtat cttcgggggc 240
 attgattagg tgaataaaag ggtttttgat tgaagatgcg gttgggaaag atgtggctca 300
 atgcttaaat gaagctcttg ctaggaatgg actaaatgtg cgagttactg cactggtgaa 360
 tgacaccgtg gggacattag ctctaggaca ttatcacgat gaggatacag tggtctgtgt 420
 gatcattggg 430

<210> 1131
 <211> 356
 <212> DNA
 <213> Zea mays

<400> 1131

ggacctcaaa gcgaagtggg acgccgttga ggacaagccc accgtcctct tgtacggcgg 60
 cggcgccgtc gtcgccctct ggctgacgtc cgtggtcgtg ggcgccatca acgccgtgcc 120
 gctgctcccc aagatcctgg agctcgttgg gctcggctac accggctggg tcgtgtaccg 180
 ctaccttctc ttcaaggaaa gcaggaaaga gttggccgcc gacattgaga ccttgaagaa 240
 aaaaatagct ggaacagaat aaacgctcat ggaaagtttt agagcgtcct ttcttctttg 300
 gaaagagatc tattcgatcg gagaaccaat gcaactactt gagtactatt attgcc 356

<210> 1132

<211> 440
 <212> DNA
 <213> Zea mays

<400> 1132

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cgccgctccg cgctccgccc tctccctcg gcgcagcgtc tgccagcttc gcttccaagg 60
ggcaccgagg ctctccctgc tccgtgcgaa ggccgcttcc gaggacacat cggcctccgg 120
cgacgagttg atcgaggacc tcaaagcgaa gtgggacgcc gttgaggaca agcccaccgt 180
cctcttgtag ggcgggcgcg ccgtcgtcgc cctatggctg acgtccgtgg tcgtgggcgc 240
catcaacgcc gtgccgctgc tccccaagat cctggagctc gttgggctcg gctacaccgg 300
ctggttcgtg taccgctacc ttctctttaa ggaaagcagg aaagagttgg ccgccgacat 360
tgagaccttg aagaaaaaaaa tagctggaac agaataaacg ctcatggaaa gttttagagc 420
gtcctttctt ctttggaag 440
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<210> 1133
 <211> 421
 <212> DNA
 <213> Zea mays

<400> 1133

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aatccgtggc gtcctcggc ggcgcgcgcc ttcccgccgc tccgcgctcc gccctcctcc 60
ctcggcgcag cgtctgccag cttecgcttc aagatgcacc gaggtctctc ctgctccgtg 120
cgaaggccgc ttccgaggac acatcggcct ccggcgacga gttgatcgag gacctcaaag 180
cgaagtggga cgccgttgag gacaagccca ccgtcctctt gtacggcggc ggcgccgtcg 240
tcgccctttg gctgacgtcc gtggtcgtgg gcgccatcaa cgccgtgccg ctgctcccca 300
agatcctgga gtcggttggg ctcggtaca ccggtgggtt cgtgtaccgc taccttctct 360
tcaaggaaag caggaaagag ttggccgccc acattgagac cttgaagaaa aaaatagctg 420
g 421
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<210> 1134
 <211> 420
 <212> DNA
 <213> Zea mays

<400> 1134

ggttctgtag cttccggtac gcttggttaag tggacaaagg cattttccat taatgatgct 60
 gtaggcgaag atgtggtggc tgaactgcaa acagccatgg agaagcaagg tctggacatg 120
 catgtagctg cattgattaa tgatgctgtt gggacgctgg cgggagcaag gtactacgac 180
 aaagatgttg tgcgtggtgt aatatttggc actggcacia acgcagcata tgttgagaag 240
 gcaaagtcta ttgcaaaatg ggaggggtgag ctgccccatt caggagacat ggtcatcaac 300
 atggaatggg gtaacttctt ctcatctcat cttcccatca ctgaatatga tcaagaatta 360
 gataaggaga gcttaaattcc aggagaacag atttacgaga agttaacgtc aggaatgtat 420

<210> 1135
 <211> 420
 <212> DNA
 <213> Zea mays

<400> 1135

agggccatgg aaaggcaggg tcttgatatg aaagttgcag ctctgggttaa tgacactgta 60
 ggcacattgg ctggtgggag atatgctgat aatgatgttg ttgctgctgt aatattgggc 120
 actggcacia atgcagctta tgtggaacat gcaaagtcca ttctaaatg gaccgggctg 180
 ctacctagat cagggaacat ggtaataaac atggagtggg gaaacttcag atcagataaa 240
 cttccaaggt cggagtatga taaatcctta gacttcgaaa gtttgaaccc tggtagcag 300
 atatatgaaa agatgatttc tggaatgtat cttggagaaa ttgtccggag gatcctgctg 360
 aaactggctc atgatgcttc attgtttggg gatgttggtc ctccgaaact ggaacagcta 420

<210> 1136
 <211> 107
 <212> DNA
 <213> Zea mays

<400> 1136

cggacactgg gcgagacgcg tgggtgaagt ttcggcgaga tgttgataga cttcgtgccc 60
 accgtggcgg gggctctgct agcggaagtg ccggccttac tcaaggc 107

<210> 1137
 <211> 230
 <212> DNA
 <213> Zea mays

<400> 1137

gcgcccacct cctctgtctct ctctctctccc ccacctctgc gtccgtgcgt tgtgtttgtt 60

taggcggcaa ccgcgatgcg caatggcggc cgggcgagag ctggtggtga gtttcggcga 120

gatgttgata gacttcgtgc ccaccgtggc gggggtctcg ctggcggagg cgccgggctt 180

cctcaaggcg cccggtggcg cgcccgttaa cgtcgccatc gtggtctcgc 230

<210> 1138

<211> 240

<212> DNA

<213> Zea mays

<400> 1138

cgacgtcgtc ataactggcg cctctatgag tcggcggact gctgccgctg cggcgtccaa 60

caacctggtg gtgtcgttcg gcgagatgct gatcgacttc gtccccgacg tggccgtgct 120

gtcgttgccc gagtcgggcg gcttcgtcaa ggcacccggc ggcgcgcccg ccaacgtcgc 180

ctgcgccatc gccaaagctcg gcggatcctc cgccttcgta ggcaagttcg gcgacgacga 240

<210> 1139

<211> 300

<212> DNA

<213> Zea mays

<400> 1139

cggaccgtgg cgtcaacgtc gccaaaggacg actccatctt ccacaacgag gagggagccg 60

acgaaggcgt cgccggcgcc ggtggtgtcg acggtgtcga ccttgaagcc gggcacgctg 120

cccttgaagt ccttggtgaa gtacctgcat cccttgtccc cgtcggtgac gacgagcagc 180

ttgagcccgt caaaccacag ggacagcacg ttctcacgcg cgaggtcgtg cccggcatga 240

tcgtcaccgg gatggaggtc gcagagatcg acggcgcccc gaggatgggc ccgacgttcg 300

<210> 1140

<211> 183

<212> DNA

<213> Zea mays

<400> 1140

catgtactac cgcaacccca gcgctgacat gtcctcacc gccgacgagc tcaacgtcga 60

gtcatcaag aggagtgcgg tcttccacta cggatcaata agcttgattg ctgagccttg 120
 ccggacagca catctccgtg ccatggagat tgccaaagag gcaggtgcac agctctctta 180
 tga 183

<210> 1141
 <211> 339
 <212> DNA
 <213> Zea mays

<400> 1141

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 ccaaaggatc gttaaagatc catcctcgct acaagatgag aagaagcttg tggagtcgat 120
 taaattcgct aacgcgtgcg gagcgccac caccacgaag aagggggcga tcccgtcgct 180
 gccacccgaa gcggaggtct tgcagctaata agagaaggct tagatcatca tcgtcctgta 240
 cgccatgggtt ttcaccagct tctacttctt cgaattgtat tggattctga tatggaacag 300
 aagaagaagc ggctgccccca tcttaccagc cctttttgt 339

<210> 1142
 <211> 310
 <212> DNA
 <213> Zea mays

<400> 1142

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 gcggcgctcg cttcgactcc ggcgcgcgca ccggctcgcc ttcgtcaccg tcgcgcgccga 120
 cggggagcgc gagttcatgt tctaccgcaa cccagcgcgt gacatgctcg tcaccgccga 180
 cgagctcaac gtcgagctca tcaagagggc tgcggtcttc cagtacggat cagtaagctt 240
 gattgctgag ccttgccgga cagcacatct ccgtgccatg gagattgcca aacaggcagg 300
 tgcactgctc 310

<210> 1143
 <211> 226
 <212> DNA
 <213> Zea mays

<400> 1143

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 cgtcgtcttc gactccggcg cgcgcaccgc gctcgcttc gtcaccctgc gcgccgacgg 120
 ggagcgcgag ttcatgttct accgcaatcc cagcgtgac atgctcctca ccgccgacga 180
 gctcaacgtc gagctcatca agagggctgc ggtcttccac tacgga 226

<210> 1144
 <211> 260
 <212> DNA
 <213> Zea mays

<400> 1144

atccatcctc gctacaagac gagaagaagc ttgtagagtc tattaaattc gctaattgcgt 60
 gtggagcaat caccgccacg aagaaggggtg cgatcccgtc tttgccact gaaactgagg 120
 tcttgcagct aatagagaag gcatagatag atcactgtaa ttgctttggt tttcactagc 180
 ttccacttct gcaaattgca aaatgtattg tattctgac tggaacagaa gaagtgggtg 240
 ctccatctta cctgccattt 260

<210> 1145
 <211> 328
 <212> DNA
 <213> Zea mays

<400> 1145

cccacgcgtc cgcaataagc ttgattgctg agccttgccg gacagcacat ctccgtgcc 60
 tggagattgc caaagaggca ggtgcactgc tctcttatga cccaaacctg agggaggcac 120
 tatggccatc ccgtgaggag gcccgaccc agatcttgag catctgggac caggcagaca 180
 ttgtcaaggt cagcgaagtc gagctcgagt tcttgacagg catcgactcg gtggaggacg 240
 atgttgtcat gaagctgtgg cggcctacca tgaagctgct cctagtgact cttggagatc 300
 aagggtgcaa gtactatgcc agggattt 328

<210> 1146
 <211> 314
 <212> DNA
 <213> Zea mays

<400> 1146

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 tgggtgcaactg ctctctttacg acccaaacct gagggaggca ctttggccat cccgtgagga 120
 ggcccgccacc cagatcttga gcatctggga ccaggcagat atcgtcaagg tcagcgaagt 180
 cgagcttgag ttcttgacag gcatcaactc agtggaggac gatgttgtca tgaagctgtg 240
 gcgacctacc atgaagctgc tcttggtgac tcttggagat caaggatgca agtactatac 300
 cagggatttc catg 314

<210> 1147
 <211> 286
 <212> DNA
 <213> Zea mays

<400> 1147

ccggacagca catctccgtg ccatggagat tgccaaagag gcaggtgcac tgctctctta 60
 tgacccaaac ctgagggagg cactatggcc atcccgtgaa gagggccgca cccagatctt 120
 gagcatctgg gaccaggcag acattgtcaa ggtcagcgaa gtcgagctcg agttcttgac 180
 aggcacgac tcggtggagg acgatgttgt catgaagctg tggcggccta ccatgaagct 240
 gctcctagtg actcttgagg atcaaggggtg caagtactat gccagg 286

<210> 1148
 <211> 272
 <212> DNA
 <213> Zea mays

<400> 1148

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 gaggacggca ctatggccat cccgtgagga ggcccgccacc cagatcttga gcatctggga 120
 ccaggcagac attgtcaagg tcagcgaagt cgagctcgag ttcttgacag gcatcgactc 180
 ggtggaggac gatgttgtca tgaagctgtg gcggcctacc atgaagctgc tcctagtgc 240
 tcttggagat caagggtgca agtactatgc ca 272

<210> 1149
 <211> 286
 <212> DNA
 <213> Zea mays

<400> 1149

agctcaacgt cgagctcatc aagagggctg cggctcttcca ctacggatca ataagcttga 60

ttgctgagcc ttgccggaca gcacatctcc gtgccatgga gattgccaaa gaggcaggtg 120

cactgctctc ttatgaccca aacctgaggg aggcactatg gccatcccgt gaggaggccc 180

gcacccagat cttgagcatc tgggaccagg cagacattgt caaggtcagc gaagtcgagc 240

tcgagttctt gacaggcatc gactcgggtg aggacgatgt tgtcat 286

<210> 1150

<211> 263

<212> DNA

<213> Zea mays

<400> 1150

gcggtctttc actacggatc aataagcttg attgctgagc cttgccggac agcacatctc 60

cgtgccatgg aaattgccaa agaggctggt gcactgctct cttacgaccc aaacctgagg 120

gaggcacttt ggccatcccg gaggaggccc gcacccagat cttgagcatc tgggaccagg 180

cagatatcgt caaggtcagc gaagtcgagc ttgagttctt gacaggcatc aactcagtgg 240

aggacgatgt tgtcatgaag ctg 263

<210> 1151

<211> 297

<212> DNA

<213> Zea mays

<400> 1151

aggtggagga cgatgttgtc atgaagctgt ggcggcctac catgaagctg ctcttagtga 60

ctcttgagga tcaaggggtgc aagtactatg ccagggattt ccatggcgct gtgccttctt 120

tcaaagtaca acaagttgat acaactggcg caggtgacgc gttcgttggt gctctgctcc 180

aaaggatcgt taaagatcca tcctcgctac aagatgagaa gaagcttggt gagtcgatta 240

aattcgctaa cgcgtgcgga gcgatcacca ccacgaagaa gggggcgatc tcgtcgc 297

<210> 1152

<211> 293

<212> DNA

<213> Zea mays

<400> 1152

caggcatcga ctcggtggag gacgatgttg tcatgaagct gtggcggcct accatgaagc 60

tgctcctagc gactcttgta gatcaagggt gcaagtacta tgccagggat ttccatggcg 120

ctgtgccttc cttcaaagta caacaagttg atacaactgg cgcaggtgac gcgttcgttg 180

gtgctctgct ccaaaggatc gttaaagatc catcctcgct acaagatgag aagaagcttg 240

tggagtcgat taaattcgct aacgcgtgcg gagcgatcac caccacgaag aag 293

<210> 1153

<211> 286

<212> DNA

<213> Zea mays

<400> 1153

atcgactcgg tggaggacga tgttgtcatg aagctgtggc ggctaccat gaagctgctc 60

ctagtgactc ttggagatca agggtgcaag tactatgccca gggatttcca tggcgctgtg 120

ccttccttca aagtacaaca agttgatcaa ctggcgcagg tgacgcgttc gttggtgctc 180

tgctccaaag gatcgtaaa gatccatcct cgctacaaga tgagaagaag cttgtggagt 240

cgattaaatt cgctaacgcg tgcggagcga tcaccaccac gaagaa 286

<210> 1154

<211> 276

<212> DNA

<213> Zea mays

<400> 1154

gagaagaagc ttgtggagtc gatggatcct taacgatcct ttggagcaga gcaccaacga 60

acgcgtcacc tgcgccagtt gtatcaactt gttgtacttt gaaggaaggc acagcgccat 120

ggaaatccct ggcatagtac ttgcaccctt gatctccaag agtcactagg agcagcttca 180

tggtagaccg taacagcttc atgacaacat cgtcctccac cgagtcgatg cctgtcaaga 240

actcgagctc gacttcgctg accttgacaa tgtctg 276

<210> 1155

<211> 276

<212> DNA

<213> Zea mays

<220>
 <221> unsure
 <222> (1)..(276)
 <223> unsure at all n locations

 <400> 1155

 agctcaacgt cgagctcatc aagagggctg cggctcttcca ctacggatca ataagcttga 60
 ttgctgagcc ttgccggaca gcacatctcc gtgccatgga gattgccana gaggcaggtg 120
 cactgctctc ttatgaccca aacctgaggg aggcactatg gcaatcccgt gaggaggccc 180
 gcaccagatc ttgagcatct gggacaggca gacattgtca aggtcaacga gtcgagctcg 240
 agtcttgaca ggatcgactc ggtggaggcg atgttg 276

<210> 1156
 <211> 230
 <212> DNA
 <213> Zea mays

<400> 1156

 agcacatctc cgtgccatgg agattgccaa agaggcaggt gcactgctct cttatgaccc 60
 aaacctgagg gaggcactat ggccatcccc tgaggaggcc cgcacccaga tcttgagcat 120
 ctgggaccag gcagacattg tcaaggtcag cgaagtcgag ctcgagttct tgacaggcat 180
 cgactcgggtg gagtacgatt ttgtcatgaa gctggggcgg cctaccatga 230

<210> 1157
 <211> 294
 <212> DNA
 <213> Zea mays

<400> 1157

 gtcgcctgcg ccatcgccaa gctcggcgga tcttcgcct tcgtaggcaa gttcggcgac 60
 gacgagttcg ggcacatgct ggtgaacatc ctgaagcaga acaacgtgaa ctcgaggagg 120
 tgcctgttcg acaagcacgc gcggacggcg ctggccttcg tgacgctcaa gcacgacggg 180
 gagcgcgagt tcatgttcta caggaacccg agcgcggaca tgctgctgac ggaggcggat 240
 ctggacctgg gcctggtgcg gcgcgccagg gtgttccact acggctccat ctcg 294

<210> 1158
 <211> 299

<212> DNA
 <213> Zea mays
 <400> 1158
 gcctgttcga caagcacgcg cggacggcgc tggccttcgt gacgtcaag cacgacgggg 60
 agcgcgagtt catgttctac aggaaccgga gcgcggacat gctgctgacg gaggcggagc 120
 tggacctggg cctgggtgcg cgcgccaggg tgttccacta cggctccatc tcgctcatct 180
 ccgagccgtg ccgctcggcg cacatggccg ccatgcgcgc agccaaggcg gcgggcgtgc 240
 tctgctccta cgacccaac gtgcgcctcg cgctctggcc gtcagccgac agcgcacgc 299

<210> 1159
 <211> 255
 <212> DNA
 <213> Zea mays
 <400> 1159
 aggtacttca ccaaggactt caagggcagc gtgcccggct tcaaggtcga caccgtcgac 60
 accaccggcg ccggcgacgc cttegtcggc tccctcctcg tcaacgtcgc caaggacgac 120
 tccatcttcc acaacgagga gaagctccgc gaggtctca agttctcaa cgctgcggc 180
 gccatctgca ccaccaagaa gggcgccatc ccggcgctgc ccacggtcgc caccgcccag 240
 gacctcatcg ccaag 255

<210> 1160
 <211> 326
 <212> DNA
 <213> Zea mays
 <400> 1160
 ccgcacgcga gggcatcctc agcatctgga aggaggccga cttcatcaag gtcagcgacg 60
 acgaggtggc cttcctcagc cgcggggacg ccaacgacga gaagaacgtg ctgtccctgt 120
 ggtttgacgg gctcaagctg ctcgctgtca ccgacgggga caagggatgc aggtacttca 180
 ccaaggactt caagggcagc gtgcccggct tcaaggtcga caccgtcgac accaccggcg 240
 ccggcgacgc cttegtcggc tccctcctcg tcaacgtcgc caaggacgac tccatcttcc 300
 acaacgagga gaagctccgc gaggcc 326

<210> 1161
 <211> 297
 <212> DNA
 <213> Zea mays

 <400> 1161

 cggcgctggc cttcgtgacg ctcaagcacg acggggagcg cgagttcatg ttctacagga 60
 acccgagcgc ggacatgctg ctgacggagg cggagctgga cctgggcctg gtgcggcgcg 120
 ccaggggtgtt ccactacggc tccatctcgc tcatctccga gccgtgccgc tcggcgcaca 180
 tagccgccat gcgcgcagcc aaggccgcgg gcgtgctctg ctctacgac cccaacgtgc 240
 gcctcgcgct ctggccgtcg cccgacgccg cacgcgaggg catcctcagc atctgga 297

<210> 1162
 <211> 235
 <212> DNA
 <213> Zea mays

 <400> 1162

 caagctgctc gtcgtcacgc acggggacaa gggatgcagg tacttcacca aggacttcaa 60
 gggcagcgtg cccggcttca aggtcgacac cgtcgacacc accggcgccg gcgacgcctt 120
 cgtcggctcc ctctcgtca acgtcgccaa ggacgactcc atcttcaca acgaggagaa 180
 gctccgcgag gctctcaagt tctccaacgc ctgcgtggcc atctgcacca ccaag 235

<210> 1163
 <211> 347
 <212> DNA
 <213> Zea mays

 <220>
 <221> unsure
 <222> (1)..(347)
 <223> unsure at all n locations

 <400> 1163

 tcttacgaen ccaacgtgcg cctcccgtc tggccgtcgc ccgacgccgc acgcgagggc 60
 atcctcagca tctggaagga ggccgactac atcaaggtca gcgacgacga ggtggccttc 120
 ctcacgcgcg gggacgccaa cgacgagaag aacgtgctgt ccctgtgggt tgacgggctc 180
 aagctgctcg tcgtcaccga cggggacaag ggatgcaggt acttcaccaa ggacttcaag 240

ggcagcgtgc ccggcttcaa ggtcgacacc gtcgacacca ccggcgccgg cgacgccttc 300
 gtcggctcac tcctcgtaa cgtcgccaag gacgactcca tcttcca 347

<210> 1164
 <211> 262
 <212> DNA
 <213> Zea mays

<220>
 <221> unsure
 <222> (1)..(262)
 <223> unsure at all n locations

<400> 1164

gatgctcgtc gtcaccgacg gggacaagg atgcaggtac ttcaccaagg acttcaagg 60
 cagcgtgccc ggcttcaagg tcgacaccgt cgacaccacc ggcgccggcg acgccttcgt 120
 cggctccctc ctcgtaacg tcgccaagga cgactccatc ttccacaacg aggagaagct 180
 ccgcgaggct ctcaagttct ccaacgcctg cgaggncatc tgcaccacca agaagggcgc 240
 catccccggcg ctgcccacgg tc 262

<210> 1165
 <211> 291
 <212> DNA
 <213> Zea mays

<220>
 <221> unsure
 <222> (1)..(291)
 <223> unsure at all n locations

<400> 1165

gaacgtgctg nccctgnggt ttgacgggct caagctgctc gtcgtcaccg acggggacaa 60
 aggatgcagg tacttcacca aggacttcaa gggcagcgtg cccggcttca aggtcgacac 120
 cgtcgacacc accggcgccg gcgacgcctt cgtcggtcc ctctcgta acgtcgccaa 180
 ggaagactcc atcttcaca acgaggagaa gctcnggatg ntctcaagtt ctccaacgcc 240
 tgcggcgcca tctgcaccac caagaagggc gccatncgg cgtgcccان g 291

<210> 1166
 <211> 371
 <212> DNA

<213> Zea mays
 <400> 1166
 cggcggactg gacctgggccc tgggtgcggcg cgccaggtgt tccactacgg ctccatctcg 60
 ctcatctccg agccgtgccc ctcgggcgac atggccgcca tgcgcgcacc aaggccgcgg 120
 gcggtgctctg ctccctacgac cccaacgtgc gcctcccgtc ctggccgtcg cccgacgccc 180
 cacgcgaggg catcctcagc atctggaagg aggccgactt catcaaggtc agcgacgacg 240
 aggtggcctt cctcacgcgc ggggacgcca acgacgagaa gaacgtgctg tccctgtggt 300
 ttgacgggct caagctgctc gtcgtcaccg acggggacaa gggatgcagg tagcttcacc 360
 aagacttcaa g 371

<210> 1167
 <211> 310
 <212> DNA
 <213> Zea mays
 <220>
 <221> unsure
 <222> (1)..(310)
 <223> unsure at all n locations
 <400> 1167

gtcgtccccg acgtggcccg gctgtcgctg gccgagtcgg gcggcttcgt caaggcaccc 60
 ggcggcgcgcc ccgccaacgt cgcctgcgcc atcgccaagc tcggcggatc ctccgccttc 120
 gtaggcaagt tcggcgacga cgagttcggg cacatgctgg tgaacatcct gaagcagaac 180
 aacgtgaacg cggacgggtg cctgttcgac aagcacgcgc ggacggcgct ggggttcgtg 240
 acgctcaagc agtacgggga gcgcgagttc atgttctaca ngaacccgag cgacgacatg 300
 ctgctgacgg 310

<210> 1168
 <211> 280
 <212> DNA
 <213> Zea mays

<400> 1168
 cccacgcgtc cgtcgacaag cacgcgcgga cggcgtggc cttcgtgacg ctcaagcacg 60
 acggggagcg cgagttcatg ttctacagga acccgagcgc ggacatgctg ctgacggagg 120

cggagctgga cctgggcctg gtgcggcgcg ccagggtgtt ccactacggc tccatctcgc 180
 tcatctccga gccgtgccgc tcggcgacaca tggccgccat gcgcgcagca aggccgcggg 240
 cgtgctctgc tcctacgacc ccaacgtgcg cctcgcgctc 280

<210> 1169
 <211> 311
 <212> DNA
 <213> Zea mays

<400> 1169

cccacgcgtc cgcccacgcg tccggatgca ggtacttcac caaggacttc aagggcagcg 60
 tgcccgggctt caaggtcgac accgtcgaca ccaacggcgc cggcgacgcc ttcgtcggct 120
 ccctcctcgt caacgtcgcc aaggacgact ccatcttcca caacgaggag aagctccgcg 180
 aggtctctcaa gttctccaac gcctgcagcg ccatctgcac caccaagaag ggcgccatcc 240
 cggcgctgcc cacggtcgcc accgcccagg acctcatcgc caaggccaac tagatggccg 300
 cacaccccgc c 311

<210> 1170
 <211> 266
 <212> DNA
 <213> Zea mays

<400> 1170

cgaggtggcc ttcctcacgc gcggggacgc caacgacgag aagaacgtgc tgtccctgtg 60
 gtttgacggg ctcaagctgc tcgtcgtcac cgacggggac aagggatgca ggtacttcac 120
 caaggacttc aagggcagcg tgcccgggctt caaggtcgac accgtcgaca ccaccggcgc 180
 cggcgacgcc ttcgtcggct ccctcctcgt caacgtcgcc aaggacgact ccatcttcca 240
 caacgaggag aagctccgcg agggcc 266

<210> 1171
 <211> 272
 <212> DNA
 <213> Zea mays

<400> 1171

acttcaccaa ggacttcaag ggcagcgtgc ccggcttcaa ggtcgacacc gtcgacacca 60

ccggcgccgg cgacgccttc gtcggctccc tctctgtcaa cgtcgccaag gacgactcca 120
 tcttccacaa cgaggagaag ctccgcgagg ctctcaagtt ctccaacgcc tgcagcgcca 180
 tctgcaccac caagaagggc gccatcccgg cgtcgccac ggtcgctacc gccaggacc 240
 tcatcgccaa ggccaactag atggccgcac gc 272

<210> 1172
 <211> 275
 <212> DNA
 <213> Zea mays

<400> 1172

aaggacttca agggcagcgt gccggcttc aaggctgaca ccgtcgacac caccggcgcc 60
 ggcgacgcct tcgtcggttc cctcctctgc aacgtcgcca aggacgactc catctttcac 120
 aacgaggaga agctccgcga ggccctcaag ttctccaacg cctgcggggc atctgcacca 180
 ccaagaaggg cgccatcccg gcgctgcca cggctcgccac cgcccaggac ctcatcgcca 240
 aggccaacta gatggcgca cgccccgcg ttcca 275

<210> 1173
 <211> 300
 <212> DNA
 <213> Zea mays

<400> 1173

gaagaacgtg ctgtccctgt ggtttgacgg gctcaagctg ctcgtcgtca ccgacgggga 60
 caagggatgc aggtacttca ccaaggactt caagggcagc gtgcccggt tcaaggtcga 120
 caccgtcgac accaccggcg ccggcgacgc ctctcgtggc tccctcctcg tcaacgtcgc 180
 caaggacgac tccatcttcc acaacgagga gaagctccgc gaggccctca agttctccaa 240
 cgctgcgtg gccatctgca ccaccaagaa gggcgccatc ccggcgctgc ccacggtcgc 300

<210> 1174
 <211> 277
 <212> DNA
 <213> Zea mays

<400> 1174

cgctcaagca cgacggggag cgcgagttca tgttctacag gaacccgagc gcggacatgc 60

tgctgacgga ggcggagctg gacctggggc tggcgcgcg cgccaggggtg ttccactacg 120
gctccatctc gctcatctcc gagccgtgcc gctcggcgca catggccgcc atgcgcgcag 180
caaggccgcg ggcgtgctct gctcctacga cccaacgtg cgctccccgc tctggccgtc 240
gcccgcgcgc gcacgcgagg gcatcctcag catctgg 277

<210> 1175

<211> 279

<212> DNA

<213> Zea mays

<400> 1175

gagcagcgtg cccggcttca aggtcgacac cgtcgacacc accggcgccg gcgacgcctt 60
cgtcggctcc ctctcgtca acgtcgccaa ggacgactcc atcttcaca acgaggagaa 120
gctccgcgag gctctcaagt tctccaacgc ctgcgaggcc atctgcacca ccaagaaggg 180
cgacacaccg gcgctgcca cggtcgccac cgcccaggac ctcatcgcca aggccaacta 240
gatggccgca cgccccgcg ttccaccacg tcaactgtcc 279

<210> 1176

<211> 292

<212> DNA

<213> Zea mays

<400> 1176

gcgagggcat cctcagcatc tggaaggagg ccgacttcat caaggtcagc tacgacgagg 60
tggccttctt cacgcgcggg gacgccaacg acgagaagaa cgtgctgtcc ctgtggtttg 120
acgggctcaa gctgctcgtc gtcaccgacg gggacaaggg atgcaggtac ttcaccaagg 180
acttcaaggg cagcgtgccc ggcttcaagg tcgacaccgt cgacaccacc ggcgccggcg 240
acgccttcgt cggctccctc ctcgtcaacg tcggcaagga cgactccatc tt 292

<210> 1177

<211> 288

<212> DNA

<213> Zea mays

<400> 1177

aaggacttca agggcagcgt gcccggttc aaggtcgaca ccgtcgacac caccggcgcc 60

ggcgacgcct tcgtcggctc cctcctcgtc aacgtcgcca aggacgactc catcttccac 120
aacgaggaga agctccgcga ggcctcaag ttctccaacg cctgcggggc atctgcacca 180
ccaagaaggg cgccatcccg gcgctgcca cggtcgccac cgcccaggac ctcatcgcca 240
aggccaacta gatggccgca cgccccgccc ttccaccacg tcaactgtc 288

<210> 1178
<211> 272
<212> DNA
<213> Zea mays

<400> 1178

cccacgcgtc cgacgagttc gggcacatgc tggatgaacat cctgaagcag aacaacgtga 60
acgcggaggg gtgcctgttc gacaagcacg cgcggacggc gctggccttc gtgacgtca 120
agcacgacgg ggagcgcgag ttcatgttct acaggaaccc gagcgcggac atgtgtgtga 180
cggaggcgga gctggacctg ggcctggtgc ggcgcgccag ggtgttccac tacggctcca 240
tctcgtcat ctccgagccg tgccgctcgg cg 272

<210> 1179
<211> 225
<212> DNA
<213> Zea mays

<400> 1179

gtgaactcgg aggggtgcct gttcgacaag cacgcgcgga cggcgtggc cttcgtgacg 60
ctcaagcacg acggggagcg cgagttcatg ttctacagga acccgagcgc ggacatgctg 120
ctgacgaagg cgaacctgaa cttgggcttg ttccgcgcgc caaggtgttc cactacggct 180
ccatctcggc catcttcgag ccgtgccgct cggcgaaaat ggccg 225

<210> 1180
<211> 243
<212> DNA
<213> Zea mays

<400> 1180

gccgacttca tcaaggctcag cgacgacgag gtggccttcc tcacgcgcgg ggacgccaac 60
gacgagaaga acgtgctgtc cctgtggttt gacgggctca agctgctcgt cgtcaccgac 120

ggggacaagg gatgcaggta cttcaccaag gacttcaagg gcagcgtgcc cggcttcaag 180
 gtcgacaccg tcgacaccac gggcgccggc gacgccttcg tcggctccct cctcgtcaag 240
 gtc 243

<210> 1181
 <211> 286
 <212> DNA
 <213> Zea mays

<400> 1181

gtgctctgct cctacgaccg caacgtgccc ctcccgtctt ggccgtcgcc cgacgccgta 60
 cgcgagggca tcctcagcat ctggaaggag gccgacttca tcaaggtcag cgacgacgag 120
 gtggccttcc tcacgcgccc cgacgccaac gacgagaaga acgtgctgtc cctgtggttt 180
 gacgggctca agctgctcgt cgtcacccgac ggggacaagg gatgcaggta cttcaccaag 240
 gacttcaagg gcagcgtggc ccgcttcaag gtcgacaccg tcgaca 286

<210> 1182
 <211> 265
 <212> DNA
 <213> Zea mays

<400> 1182

cgctcatctc cgagccgtgc cgctcggcgc acatggccgc catgcgcgca ccaaggcggc 60
 gggcgtgctc tgctcctacg accccaacgt gcgcctcccg ctctggccgt cgcccgacgc 120
 cgcacgcgag ggcattctca gcattctggaa ggaggccgac ttcatcaagg tcagcgacga 180
 cgaggtggcc ttctcacgc gcggggacgc caacgacgag aagaacgtgc tgtccctgtg 240
 gtttgacggg ctcaagctgc tcgtc 265

<210> 1183
 <211> 276
 <212> DNA
 <213> Zea mays

<400> 1183

cccaaggact tcaagggcag cgtgccccgc ttcaaggctg acaccgtcga caccaccggc 60
 gccggcgacg ccttcgtcgg ctccctcctc gtcaacgtcg ccaaggacga ctccatcttc 120

cacaacgagg agaagctccg cgaggccctc aagttctcca acgcttgagg gccatctgca 180
ccaccaagaa gggcgccatc ccggcgctgc ccacggctgc caccgcccag gacctcatcg 240
ccaaggccaa ctagatggcc gcacgccccg ccgttc 276

<210> 1184
<211> 336
<212> DNA
<213> Zea mays

<400> 1184

gaacgtgctg tccctgtggt ttgacgggct caagctgctc gtcgtcacgc ggggacaagg 60
gatgcaggta cttaccaag gacttcaagg gcagcgtgcc cggcttcaag gtcgacaccg 120
tcgacaccac cggcgccggc gacgccttcg tcggctcccc tctcgtcaa cgtcgccaag 180
gacgactcca tcttcacaa cgaggagaag ctccgcgagg ctctcaagtt ctccaacgcc 240
tgcgtggcca tctgcaccac caagaagggc gccatcccgg cgctgccac ggtcgcttac 300
gcccaggacc tcatcgccaa ggccaactag atggcc 336

<210> 1185
<211> 329
<212> DNA
<213> Zea mays

<400> 1185

gcgcggacat gctgctgacg gaggcggact ggacctgggc ctggtgcggc gcgccacggt 60
gttccactac ggctccatct cgctcatctc cgagccgtgc cgctcggcgc acatggccgc 120
catgcgcgca ccaaggccgc gggcgtgctc tgctcctacg acttcatcaa ggtcagcgac 180
gacgaggtgg ccttcctcac gcgcggggac gccaacgacg agaagaacgt gctgtccctg 240
tggtttgacg gctcaagctg ctcgctgtca ccgacgggga caagggatgc aggtacttca 300
ccaaggactt caagggcagc gtgcccggc 329

<210> 1186
<211> 237
<212> DNA
<213> Zea mays

<400> 1186

gccccatgcg cgcaccaagg ccgcggggcgt gctctgctcc tacgacccca acgtgcgctt 60
 cccgctctgg ccgtcgcccg acgccgcacg cgagggcatc ctcagcatct ggaatgaggc 120
 cgacttcacg aaggtcagcg acgacgaggt ggccttcctc acgcgcgggg acgccaacga 180
 cgagaagaac gtgctgtccc tgtggtttga cgggctcaag ctgctcgctg tcaccga 237

<210> 1187
 <211> 196
 <212> DNA
 <213> Zea mays

<400> 1187

cccacgcgtc cgcccacgcy tccgcgactt catcaaggtc agcgacgacg aggtggcctt 60
 cctcacgcgc ggggacgcca acgacgagaa gaacgtgctg tccctgtggt ttgacgggct 120
 caagctgctc gtcgtcaccg acggggacaa gggatgcagg tacttcacca aggacttcaa 180
 gggcagcgtg cccggc 196

<210> 1188
 <211> 283
 <212> DNA
 <213> Zea mays

<400> 1188

cgtcaacgct gccaaaggac actccatctt ccacaacgag gagaagctcc gcgaggctct 60
 caagttctcc aacgcctgcy ggcgccatctg caccaccaag aagggcgcca tcccggcgct 120
 gccacggctc gccaccgccc aggacctcat cgccaaggcc aactagatgg ccgcacgccc 180
 cgccgttcca ccacgtcact gtcccccgcc gccccgcccc tcgtcgtcga cgtcctcggt 240
 ttcggttcat taggtagatc gagtcttagc gtccgtctct gcg 283

<210> 1189
 <211> 171
 <212> DNA
 <213> Zea mays

<400> 1189

gaacaacgta tacgcggagg ggtgcctgtt cgacaagcac gcgcggacgg gctggccttc 60
 gtgacgctca agcacgacgg ggagcgcgag ttcattgtct acaggaaccc gagcgcggac 120

atgctgctga cggaggcgga ctggtacctg ggcctggtgc ggcgcgccag g 171

<210> 1190
 <211> 267
 <212> DNA
 <213> Zea mays

<400> 1190

ggacgactcc atcttccaca acgaggagaa gctccgcgag gccctcaagt tctccaacgc 60
 ctgcggcgcc atctgcacca ccaagaaggg cgccatcccc gcgctgcca cggtcgccac 120
 cgcccaggac ctcatcgcca aggccaacta gatggccgca tgccccgcgc ttccaccacg 180
 tcaactgtccc ccgcgcgccc gccctctgtc gtcgacgtcc tcggtttcgg ttcattaggt 240
 agatcgagtc ttagcgtccg tctctgc 267

<210> 1191
 <211> 201
 <212> DNA
 <213> Zea mays

<400> 1191

ccgacttcat caaggtcagc gacgacgagg tggccttctt cacgcgcggg gacgccaacg 60
 acgagaagaa cgtgctgtcc ctgtggtttg aagggtcaa gctgctcgtc gtcaccgacg 120
 gggacaaggg atgcaggtac ttcaccaagg acttcaaggg cagcgtgccc ggcttcaagg 180
 tcgacaccgt cgacaccacc g 201

<210> 1192
 <211> 272
 <212> DNA
 <213> Zea mays

<400> 1192

caacggcagc gtgcccggct tcaaggtega caccgtcgac accaccggcg ccggcgacgc 60
 cttcgtcggc tccctctctg tcaacgtcgc caaggacgac tccatcttcc acaacgagga 120
 gaagctccgc gaggccctca agttctccaa cgcttgcggc gccatctgca ccaccaggaa 180
 gggcgccatc ccggcgctgc tgcaggtegc caccgcccag gacctcatcg ccaaggccaa 240
 ctagatggcc gcacgcaccg ccgttccacc ac 272

<210> 1193
 <211> 307
 <212> DNA
 <213> Zea mays

<400> 1193

ctgcgagggc tctcaagttc tccaacgcct gcaggccatc tgcaccacca agaagggcgc 60
 catcccggcg ctgcccacgg tgcgcccgcc ccaggacctc atcgccaagg ccaactagat 120
 ggccgcacgc ccgcccgttc accacgtcac tgtccccctc gtcgtcgacg tcctcggttt 180
 cggttcatta ggtagatcga gtcttagcgt ccgtctctgc gcctctacgc tgagacgggt 240
 tgtttggggt aattaagtta gctttcgtgg agatttcgcc ccggggcatc aaataaaatg 300
 ttggcat 307

<210> 1194
 <211> 306
 <212> DNA
 <213> Zea mays

<400> 1194

ggcggactgc tgccgcggcg gcgtccaaca acctgggtgg gtcgttcggc gagatgctga 60
 tcgacttcgt ccccgacgtg gccgggctgt cgctggccga gtcgggctgc ttcgtaagg 120
 caccggcgcg cgcgcccgc aacgtcgcct gcgccatcgc caagctcggc ggatcctccg 180
 ccttcgtagg caagttctgc gacgacgagt tcgggcacat gctggtgaac atcctgaagc 240
 agaacaacgt gaacgcggag gggtgccctgt tcgacaagca cgcgtggacg gcgctggcct 300
 tcgtga 306

<210> 1195
 <211> 314
 <212> DNA
 <213> Zea mays

<400> 1195

cgcctcgctt tcccttcccc accagcccgt ctctctcttc tctctgactc tctctctcgt 60
 agccgcgtcc acctcgcagc agcaagcaag cgcgaccaa tggcgccctc aggagacggc 120
 ggagctgctg ccgcggcggc gtccaacaac ctggtggtgt cgttcggcga gatgctgac 180

gacttcgtcc ccgacgtggc cgggctgtcg ctggccgagt cgggcggctt cgtcaaggca 240
 cccggcggcg cgcccgccaa cgtcgctgc gccatcgta agctcggcg atcctccgcc 300
 ttcgtaggca agtt 314

<210> 1196
 <211> 308
 <212> DNA
 <213> Zea mays
 <400> 1196

cacctgcct tccctcccc accagcccc gtctctctct ctctctctct gtctctctct 60
 cgtagccgcg tccatctgc agcagcaagc aagcgcgacc aaatggcgcc tctaggagac 120
 ggcggactgc tgccgcgcg gcgccaaca acctggtggt gtcggtcggc gagatgctga 180
 tcgacttcgt ccccgacgtg gccgggctgt cgctggccga gtcgggcggc ttcgtcaagg 240
 caccggcgcg cgcgcccgcc aacgtgcct gcgccatgc caagctcggc ggaatctccg 300
 ccttcgta 308

<210> 1197
 <211> 279
 <212> DNA
 <213> Zea mays
 <400> 1197

cgtctctctc tctctctctc tgtctctctc tcgtagccgc gtccatctcg cagcagcaag 60
 caagcgcgac caaatggcg ctctaggaga cggcggagct gctgccgcg cggcgccaa 120
 caacctggtg gtgtcgctcg gcgagatgct gatcgacttc gtccccgacg tggccgggct 180
 gtcgctggcc gagtcggcg gcttcgtcaa ggcaccggc ggcgcgccg ccaacgtcgc 240
 ctgcgccatc gccaaagctc gcggatcctc cgccttcgt 279

<210> 1198
 <211> 331
 <212> DNA
 <213> Zea mays
 <400> 1198

cccacgcgtc cgcgcctcgc cttcccttcc ccaccagccc ccgtctctct ctctctctct 60

ctgtctctct ctcgtagccg cgtccatctc gcagcagcaa gcaagcgcga ccaaattggcg 120
cctctaggag acggcggagc tgctgccgcg gcggcgcca acaacctggg ggtgtcgttc 180
ggcgagatgc tgatcgactt cgtccccgac gtggccgggc tgctcgtggc cgagtcgggc 240
ggcttcgtca aggcacccgg cggcgcgcc gccaacgtcg cctgcgccat cgtcaagctc 300
ggcggatcct ccgccttcgt aggcaagttc g 331

<210> 1199
<211> 299
<212> DNA
<213> Zea mays

<400> 1199

gcctcgctt ccttcccca ccagccccg tctctctctc tctctctctg tctctctctc 60
gtagccgcgt ccatctcgca gcagcaagca agcgcgacca aatggcgctt ctaggagacg 120
gcggagtgtt gccgcggcgg cgtccaacaa cctgggtggtg tcgttcggcg agatgctgat 180
cgacttcgtc cccgacgtgg ccgggctgtc gctggccgag tcgggagggt tcgtcaaggc 240
acccggcggc gcgtcgcca acgtcgctt cgccatcgcc aagctcggcg gatcctccg 299

<210> 1200
<211> 276
<212> DNA
<213> Zea mays

<400> 1200

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aagcaagcgc gaccaaattg cgcctctagg agacggcgga gctgctgccg cggcggcgtc 120
caacaacctg gtggtgtcgt tcggcgagat gctgatcgac ttcgtccccg acgtggccgg 180
gctgtcgttg gccgagtcgg gcggcttcgt caaggccccc ggcggcgcgc acgccaacgt 240
cgctcgccc atcgccaagc tcggcggtc ctccgc 276

<210> 1201
<211> 278
<212> DNA
<213> Zea mays

<400> 1201

cccacgcgtc cgcccacgcg tccgcctcgc cttcccttcc ccaccagccc ccgtctctct 60
ctctctctct ctgtctctct ctcgtagccg cgtccatctc gcagcagcaa gcaagcgcga 120
ccaaatggcg cctctaggag acggcggact gctgccgcgg cggcgtccaa caacctggtg 180
gtgtcgttcg gcgagatgct gatcgacttc gtccccgacg tggccggggt gtcgctggcc 240
gagtcggggc gcttcgtcaa ggcacccggc ggcgcgcc 278

<210> 1202
<211> 190
<212> DNA
<213> Zea mays

<220>
<221> unsure
<222> (1)..(190)
<223> unsure at all n locations

<400> 1202

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ggcggantgc tgccgcggcg gcgtccaaca acctggtggt gtcgttcggc gagatgctga 120
tcgacttcgt ccccgacgtg gccgggctgt cgctggccga gtcgggcggc ttcgtcaagg 180
caccgcggcg 190

<210> 1203
<211> 275
<212> DNA
<213> Zea mays

<400> 1203

agcacaatcg cctcgccttc ccttccccac cagcccccggt ctctctctct cttctctctg 60
actctctctc tcgtagccgc gtccacctcg cagcagcatg caagcgcgac caaatggcgc 120
ctctaggaga cggcggagct gctgccgcgg cggcgtccaa caacctggtg gtgtcgttcg 180
gcgatatgct gatcgacttc gtccccgacg tggccggggt gtcgctggcc gagatcggcg 240
gcttcgtcaa ggcccccggt ggcgcgctcg ccaac 275

<210> 1204
<211> 316
<212> DNA

<213> Zea mays

<400> 1204

gtctctctct tctctctgac tctctctctc gtagccgcgt ccacctcgca gcagcaagca 60
agcgcgacca gatggcgctt ctaggagacg gcggagtgtt gccgcggcgg cgtccaacaa 120
cctgggtggtg tcgttcggcg agatgtgtat cgacttcgtc cccgacgtgg ccgggctgtc 180
gctggccgag tcgggcggct tcgtcaaggc attcggcggc gcgcccggca acgtcgcttg 240
cgacatcgcc aagctcggcg gatcctccgc cttcgtaggc aagttcggcg acgacgagtt 300
cgggcacatg ctggtg 316

<210> 1205

<211> 247

<212> DNA

<213> Zea mays

<400> 1205

ctctctctct cgtagccgcg tccacctcgc agcagcaagc aagcgcgact aaatggcgctc 60
tctaggagac ggtggactgc tgctgcggcg gcgtccaaca atctgggtggt gtcgttcggc 120
gagatgtctg tcgacttcgt ccccgacgtg gctgggctgt cgctggccga ttcgggcggc 180
ttcgtcaagg caccctgcgg cgcgctcgtt aatgtcgcct tcgccatcgc caagctcggc 240
ggatcct 247

<210> 1206

<211> 418

<212> DNA

<213> Zea mays

<400> 1206

cgacgagctc aacgtcgagc tcatcaagag ggctgcggtc ttccactacg gatcagggag 60
cttgattgct gagccttgcc ggacagcaca tctccgtgcc atggagattg ccaaagaggc 120
aggtgcactg ctctcttatg acccaaacct gagggaggca ctatggccat cccgtgagga 180
ggcccgaccc cagatcttga acatctggga ccaggcagac attgtcaagg tcagcgaagt 240
cgagctcgag ttcttgacaa gcacgcactc ggtggaggac gatgttgtca tgaagctgtg 300
gcggcctacc atgaagctgc tcctagtgc tcttgagat caagggtgca agtactatgc 360

cagggatttc catggcgctg tgccttcctt caaagtacaa caagttgata caactggc 418

<210> 1207
 <211> 295
 <212> DNA
 <213> Zea mays

<400> 1207

cgacgagctc aacgtcgagc tcatcaagag ggctgcggtc ttccactacg gatcaataag 60
 cttgattgct gagccttgcc ggacagcaca tctccgtgcc atggagattg ccaaagaggc 120
 aggtgcactg ctctcttatg acccaaacct gagggaggca ctatggccat cccgtgagga 180
 ggcccgccacc cagatcttga gcatctggga ccaggcagac attgtcaagg tcagcgaagt 240
 cgagctcgag ttcttgacag gcatcgactc ggtggaagac gatgttgtca tgaag 295

<210> 1208
 <211> 439
 <212> DNA
 <213> Zea mays

<400> 1208

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 agcacgacgg ggagcgcgag ttcattgttct acaggaaccc gagcgcggac atgctgctga 120
 cggaggcgga gctggacctg ggcctggtgc ggcgcgccag ggtgttccac tacggctcca 180
 tctcgtcat ctccgagccg tgccgctcgg cgcacatggc cgccatgcgc gcagccaagg 240
 ccgcgggcgt gctctgctcc tacgacccca acgtgcgcct cccgctctgg ccgtcgcccc 300
 acgccgcacg cgagggcatc ctcagcatct ggaaggaggc cgacttcac c aaggtcagcg 360
 acgacgaggt ggccttcctc acgcgcggtg acgccaacga cgagaagaac gtgctgtccc 420
 tgtggtttga cgggctcaa 439

<210> 1209
 <211> 383
 <212> DNA
 <213> Zea mays

<400> 1209

aatcgacaag cacgcgcgga cggcgctggc cttcgtgacg ctcaagcacg acggggagcg 60

cgagttcatg ttctacagga acccgagcgc ggacatgctg ctgacggagg cggagctgga 120
cctgggcctg gtgcggcgcg ccagggtgtt ccactacggc tccatctcgc tcatctccga 180
gccgtgccgc tcggcgcaca tggccgccat gcgcgcagcc aaggcggcgg gcgtgctctg 240
ctcctacgac cccaacgtgc gcctcccgtc ctggccgtcg cccgacgccg cacgcgaggg 300
catcctcagc atctggaagg aggccgactt catcaaggtc agcgacgacg aggtggcctt 360
cctcacgcgc ggggacgcca acg 383

<210> 1210
<211> 451
<212> DNA
<213> Zea mays

<220>
<221> unsure
<222> (1)..(451)
<223> unsure at all n locations
<400> 1210

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gtgcctgttc gacaagcagc cgcggacggc gctggccttc gtgacgtca agcacgacgg 120
ggagcgcgag ttcatgttct acaggaaccc gagcgcggac atgctgctga cggaggcgga 180
gctggacctg ggcttggcgc ggcgcgccaa ggtgttccac tacggctcca tctcgtcat 240
ctccgagccg tgccgctcgg cgcacatggc cgccatgcgc gcagccaagg ccgcgggcgt 300
gctctgctcc tacgacccca acgtgcgcct tccgctctgg ccgtcgcccg acgccgcacg 360
cgagggcatc ctcagcatct ggaaggaggc cgacttcacg aaggtcagcg acgacgaggt 420
ggccttcttc acgcgcggng acgccaacga c 451

<210> 1211
<211> 497
<212> DNA
<213> Zea mays

<220>
<221> unsure
<222> (1)..(497)
<223> unsure at all n locations
<400> 1211

gagagttctc nnnttaagta gcttactgtc ttggtagtagt tegtaccgga teggagtttc 60
cgaccaaacc gtccggtccg acaggacgcc tggaccgggg ttggctttct tgccgttaag 120
ccccaacggg gacggcaagt taatgtatta caggaacca accgcggaca tgctgtttac 180
ggaggcggag ctggacctgg gcctgggtccg gtgcgccagg gtgttccact acgggtccat 240
ctcgctcatc tccgatccgt gccggtcggc gcacatggcc gacatgcgcg cagccaatgc 300
cgcgggcggtg ctctgggtcct acgacctcaa cgtgcgcctt ccgctctggc cgtcgcccga 360
cgccgtacgc gagggcatcc tcagcatctg gaacgaggcc gacttcatca aggtcagcga 420
cgacgatgtg gccttactca cgcgcgggga cgccaacgac gagaagaacg tgctgtccct 480
gtggtttgac gggctca 497

<210> 1212
<211> 253
<212> DNA
<213> Zea mays

<400> 1212

ctccatcttc cacaacgagg agaagctccg cgaggctctc aagttctcca acgcctgcgg 60
cgccatgtgc accaccaaga agggcgccat cccggcgctg cccacggtcg ccaccgccc 120
ggacctcatc gccaaggcca actagatggc cgcacgcccc gccgttccac cacgtcactg 180
tccccgcgg ccccgcccct cgtcgtcgac gtctctgggt tcggttcatt aggtagatcg 240
agtcttaccg tcc 253

<210> 1213
<211> 375
<212> DNA
<213> Zea mays

<400> 1213

cggactcgtg ggcggactcg tgggaggact cgtgggcgga ctcggtggcg gactcgtggg 60
ggcgtgctct gctcctacga cccaacgtg cgctccccgc tctggccgtc gcccgacgcc 120
gcacgcgagg gcatcctcag catctggaag gaggccgact tcatcaaggt cagcgacgac 180
gaggtggcct tcttcacgcg cggggactcc aacgacgaga agaacgtgct gtccctgtgg 240
tttgacgggc tcaagctgct cgtcgtcacc gacggggaca agggatgcag gtacttcacc 300

aaggacttca agggcagcgt gcccggcttc aaggtcgaca ccgtcgacac caccggcgcc 360
ggcgacgcct tcgtc 375

<210> 1214
<211> 411
<212> DNA
<213> Zea mays

<220>
<221> unsure
<222> (1)..(411)
<223> unsure at all n locations

<400> 1214

cccacgcgtc cgaacgagga gaagctccgc gaggtctctca agttctccaa cgctgcggc 60
gccatctgca ccaccaagaa gggcgccatc ccggcgctgc ccacggtcgc caccgnccag 120
gacctcatcg ccaaggccaa ctagatggcc gcacgcccgc cgttccacca cgtcactgtc 180
cccctcgctg tcgacgtcct cggtttcggt tcattaggta gatcgagtct tagcgtccgt 240
ctctgcgcct ctacgctgag acggtttggt tgggttaatt aagttagctt tcgtggagat 300
ttcgccccgg ggcatacaat aaaatgttgg catgcgtggt gggatgctat cctttatattt 360
tattttatattt tatttttttag cttggatcag ttgggggtttt gaacattgct a 411

<210> 1215
<211> 403
<212> DNA
<213> Zea mays

<400> 1215

tcgacccctt ttgctgaaca tgcttaagcc tatcaataag tactcggagg ggtgcctgta 60
cgacaggcgc gctttgacgg cgctgggggt cctgactctc aagcacgacg gggagcgcga 120
gttcatgttc tacaggaacc cgagcgcgga catgctgctg acggaggcgg agctggacct 180
gggcctggtg cggcgcgcca aggtgttcca ctacggctcc atctcgctca tctccgagcc 240
gtgccgctcg gcgcacatgg ccgccatgcg cgcagccaaa gccgtgggcg tgctctgctt 300
ctacgacccc aacgtgcgcc ttccgctctg gccgtcgacc gacgccgcac gcgagggcat 360
actcagcatc tggaaagagg ccgacttcat caaggtcagc gac 403

<210> 1216
 <211> 315
 <212> DNA
 <213> Zea mays

 <400> 1216

 agctgcgaga ggtgtgaagg acgtcgtgct atgactggcc gcatgattca ttcggggcca 60
 ccaggcctat gggaggcagc ccccggtagc attcgtgggg actacgccgt ggaggtcggc 120
 aggaatgtca tccatggaag cgactccgtg gagaacggga tgaaggagac gctctctggt 180
 tcctgaaggt gtgcacaagc gagagcacct tcatccctga tctacgaggc tgagcattga 240
 gctggatgca tgctgctcat ggaaccagag tttgtgagta tatctgttgc tctgctagat 300
 catattacgc ctggg 315

<210> 1217
 <211> 268
 <212> DNA
 <213> Zea mays

 <400> 1217

 ctttttctga atacctcaca gatccaaaaa tgtcttccga acagagtttc attgccatca 60
 agcccgatgg tgtccagcgt ggcctcgttg gacccatcat ctctcgcttc gagtcccgtg 120
 gcttcaagct cgccgctttg aagttggtct ctccgcctcg tgagctcttc gagaagcaat 180
 atgccgacct ctccgagaag cctttcttcc ccggtctcgt tacatacatg ttgagcggcc 240
 ccatcgttgc catggtctgg gagggccg 268

<210> 1218
 <211> 284
 <212> DNA
 <213> Zea mays

 <220>
 <221> unsure
 <222> (1)..(284)
 <223> unsure at all n locations

 <400> 1218

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 gattcgcgtc gccctttgtt ggaaggaacg atggagcaga ccttcatcat gatcaagccc 120

gacggcgtcc agcggggcct gatcggggac atcatcagtc gcttcgagaa gaaagggttc 180
 tacctcaagg ggatgaagtt catgaacgtg gagaggctct tcgcgcacag cactacgctg 240
 acctttccga caagactttc ttccccngt tggaggagta catc 284

<210> 1219
 <211> 296
 <212> DNA
 <213> Zea mays

<220>
 <221> unsure
 <222> (1)..(296)
 <223> unsure at all n locations

<400> 1219

tcgcncctc cctccggtct gcgctccac agcctcacc ctgcgcccc gccgattcgc 60
 gtgcgccttt gttggaagga acgatggagc agaccttcat catgatcaag cccgacggcg 120
 tccagcgggg cctgatcggg gacatcatca gtcgcttcga gaagaaaggg ttctacctca 180
 aggggatgaa gttcatgaac gtggagaggt ccttcgcgca cagcactacg ctgacctttc 240
 cgacaagcct ttcttccccg ggttggtgga gtacatcaat tccggccccg tgggtg 296

<210> 1220
 <211> 302
 <212> DNA
 <213> Zea mays

<400> 1220

tgtccatcgc gcctccctcc ggtctgcgt cccacagcct caccctgcg ccccgccga 60
 ttgcgctcgc cctttgttg aaggaacgat ggagcagacc ttcacatga tcaagcccga 120
 cggcgctcag cggggcctga tcggggacat catcagtcgc ttcgagaaga aagggttcta 180
 cctcaagggg atgaagttca tgaacgtgga gaggtccttc gcgcacagca ctacgtgac 240
 ctttcgcaca agcctttctt ccccggttg gtggagtaca tcatttcgg ccccggtg 300
 gc 302

<210> 1221
 <211> 372
 <212> DNA
 <213> Zea mays

<400> 1221

cgctccatcgc gcctccctcc ggtctgcgct cccacagcct caccctgcg ccccgccga 60
ttcgcgtcgc cctttgttgg aaggaacgat ggagcagacc ttcacatga tcaagcccga 120
cggcgtccag cggggcctga tcggggacat catcagtcgc ttcgagaaga aagggttcta 180
cctcaagggg atgaagttca tgaacgtgga gaggtccttc gcgcacagca ctacgtgac 240
ctttccgaca agcctttctt ccccgggttg gtggagtaca tcatttccgg ccccggtgtg 300
gcgatggtgt gggaggggaa ggacgtcgtg ttgactggcc gcagatcatt ggggccacag 360
gcttgggagg ca 372

<210> 1222

<211> 299

<212> DNA

<213> Zea mays

<400> 1222

ctcctctcat aaccaccag tccatcgac cctccctccg gtcagcgctc ccacagcctc 60
accctgcgc ccccgccgat tcgcgtcgcc ctttgttga aggaacgatg gagcagacct 120
tcacatgat caagcccgac ggcgtccagc ggggcctgat cggggacatc atcagtcgct 180
tcgagaagaa agggttctac ctcaagggga tgaagttcat gaacgtggag aggtccttcg 240
cgcagagcac tacgtgacc tttccgacaa gcctttcttc tccgggttgg tggagtaca 299

<210> 1223

<211> 327

<212> DNA

<213> Zea mays

<400> 1223

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gttggaaga acgatggagc agaccttcat catgatcaag cccgacggcg tccagcgggg 120
cctgatcggg gacatcatca gtcgcttcga gaagaaaggg ttctacctca aggggatgaa 180
gttcatgaac gtggagaggt ccttcgcgca cagcactacg ctgaccttcc cgacaagcct 240
ttcttccccg ggttggtgga gtacatcatt tccggccccg tgggtggcgat ggtgtgtgag 300
gggaagacgt cgtgtgactg gcccaga 327

<210> 1224
 <211> 284
 <212> DNA
 <213> Zea mays
 <400> 1224
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 cccccgccga ttgcgctcgc cctttgttgg aaggaacgat ggagcagacc ttcacatga 120
 tcaagcccga cggcgctccag cggggcctga tcggggacat catcagtcgc ttcgagaaga 180
 aagggttcta cctcaagggg atgaagttca tgaacgtgga gaggtccttc gcgcagagca 240
 ctacgtgac ctttccgaca agcctttctt ccccggttg gtgg 284

<210> 1225
 <211> 256
 <212> DNA
 <213> Zea mays
 <400> 1225
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 ccctttgttg gaaggaacga tggagcagac cttcatcatg atcaagcccg acggcgctcca 120
 gcggggcctg atcggggaca tcatcagtcg cttcgagaag aaagggttct acctcaaggg 180
 gatgaagttc atgaacgtgg agaggtcctt cgcgcacagc actacgtga cctttccgac 240
 aagcctttct tccccg 256

<210> 1226
 <211> 276
 <212> DNA
 <213> Zea mays
 <400> 1226
 gagcagacct tcatcatgat caagccccgac ggcgtccagc ggggcctgat cggggacatc 60
 atcagtcgct tcgagaagaa agggttctac ctcaagggga tgaagttcat gaacgtggag 120
 aggtccttcg cgcacagcac tacgtgacc tttccgacaa gcctttcttc cccgggttg 180
 cgatatacat catttccggc cccgtggtgg cgatggtgtg ggaggggaag gacgtcgtgt 240
 tgactggccg caggatcatt ggggccacca ggcctt 276

<210> 1227
 <211> 357
 <212> DNA
 <213> Zea mays

<400> 1227

ggaaggaacg atggagcaga ccttcatcat gatcaagccc gacggcgtcc agcgggcctg 60
 atcgggggaca tcatcagtcg cttcgagaag aaagggttct acctcaaggg gatgaagtcc 120
 atgaacgtgg agaggtcctt cgcgcagaaa gatacgtga cttttccgac aagcctttct 180
 tccccgggtt ggtggagtac atcatttccg gccccgtggt ggcgatggtg tgggagggaa 240
 ggacgtcgtg ttgactggcc gcaggatcat tggggccaca aggcttggga ggcagccccg 300
 gtaccattcg tggggactag ccgtggaagt cggcaggaat gtcattcagg aagcgac 357

<210> 1228
 <211> 279
 <212> DNA
 <213> Zea mays

<400> 1228

atgcctcccc caccggtcca tgcgccctcc ctccggtctg ctctcccaca gcctcacccc 60
 tgcgcccccg ccgattcgcg tgcgcccttg ttggaaggaa cgatggagca gaccttcac 120
 atgatcaagc ccgacggcgt ccagcggggc ctgatcgggg acatcatcag tcgcttcgag 180
 aagaaagggg tctactccaa ggggatgaag ttcatgaacg tggagaggtc cttcgcgcac 240
 agcactacgc tgacctttcc gacaagcttt cttccccgg 279

<210> 1229
 <211> 301
 <212> DNA
 <213> Zea mays

<400> 1229

ttttcgtcac ccctgacgct cgacgcctct cctcctctcc tccccaccc gtccatcgcc 60
 cctccctccg gtctgcgctc ccacagcctc acccctgcgc ccccgccgat tcgcgtcgcc 120
 ctttgttgga aggaacgatg gagcagacct tcatcatgat caagccccgac ggcgtccagc 180
 ggggcctgat cggggacatc atcagtcgct tcgagaagaa agggttctac ctcaagggga 240

tgaagttcat gaacgtggag aggtccttcg cgcacagcac tacgctgacc tttccgacaa 300
g 301

<210> 1230
<211> 266
<212> DNA
<213> Zea mays

<400> 1230

tcctctcccc cccacccgt ccatcgcccc tccctccggt ctgcgctccc acagcctcac 60
ccctgcgccc ccgccgattc gcgtcgccct ttggtggaag gaacgatgga gcagaccttc 120
atcatgatca agcccgacgg cgtccagcgg ggcctgatcg gggacatcat cagtcgcttc 180
gagaagaaag ggttctacct caaggggatg aagttcatga acgtggagag gtccttcgcg 240
cagagcacta cgctgacctt tccgac 266

<210> 1231
<211> 267
<212> DNA
<213> Zea mays

<400> 1231

cggggcctga tcggggacat catcagtcgc ttcgagaaga aagggttcta cctcaagggtg 60
atgaagttca tgaacgtgga gaggtccttc gcgcacagca ctacgctgac ctttccgaca 120
agcctttctt ccccggggtg gtggagtaca tcatttccgg ccccggtggtg gcgatggtgt 180
gggaggggaa ggacgtcgtg ttgactggcc gcaggatcat tgggccacca ggccttggga 240
ggcagccccg gtaccattcg tggggat 267

<210> 1232
<211> 332
<212> DNA
<213> Zea mays

<400> 1232

gtccagcggg gcctgatcgg ggacatcatc agtcgcttcg agaagaaagg gttctacctc 60
aaggggatga agttcatgaa cgtggagagg tccttcgcgc acagcactac gctgaccttt 120
ccgacaagcc tttcttcgcc gggttggtgg agtacatcat ttccgagccc gtggtggcga 180

tgggtgtggga ggggaagacg tcgtgtgact gccgcagatc attggggcca cagcccttag 240
 gagcagcccc ggtaccatcg tgggactagc cgtgaagtcg cagaatgcat catgaagcga 300
 tcgtgagacg ggagaagagt cgtctctgtc ct 332

<210> 1233
 <211> 183
 <212> DNA
 <213> Zea mays

<400> 1233

cgcaagaacg atggagcaga ccttgatcat gatcaagcac gacggcgctc agcggggcct 60
 gatcggggac atcatcagtc gcttcgagaa gaaaggggtc tacctcaagg ggatgaagtt 120
 catgaacgtg gagaggtcct tcgcgcacag ctactacgct gacctgtccg acaagccttt 180
 ctt 183

<210> 1234
 <211> 282
 <212> DNA
 <213> Zea mays

<400> 1234

tgcgacccgg cgattcgcgt cgctctttgc tggaaggaac gatggagcag accttcatca 60
 tgatcaagcc cgtcggcgtc cagcggggcc tgatcgggga catcatcagt cgcttcgaga 120
 agaaaggggt ctacctcaac gggatgaagt tcatgaacgt ggagaggtcc ttcgcgcaca 180
 gcactacgct gacctttccg acaagccttt cttccccggg ttggtggagt acatcattta 240
 cggcacccgtg gtggcgatgg tgtcggaggc gaaggacgtc gt 282

<210> 1235
 <211> 283
 <212> DNA
 <213> Zea mays

<400> 1235

ctcgacgcct ctctctctct cctatccac acgttcacgc cccctccct ccggtctgcg 60
 ctcccacagc ctacccctg cgcccccgcc gattcgcgtc gccctttgtt ggaaggaacg 120
 atggagcaga ccttcatcat gatcaagccc gacggcgctc agcggggcct gatcggggac 180

atcatcagtc gcttcgagaa gaaagggttc tacctcaagg ggatgaagtt catgaacgtg 240
gagaggtcct tcgcgcagag ccactacgct gacctttccg aca 283

<210> 1236
<211> 260
<212> DNA
<213> Zea mays

<400> 1236

cgctctcct cctctcctcc cccacccgtc catcgccctt ccctccggtc tgcgctccca 60
cagcctcacc cctgcgcccc cgccgattcg cgtcgccctt tggtggaagg aacgatggag 120
cagaccttca tcatgatcaa gcccgacggc gtccagcggg gcctgatcgg ggacatcatc 180
agtcgcttcg agaagaaagg gttctacctc aaggggatga agttcatgaa cgtggagagg 240
tccttcgcgc agagcactac 260

<210> 1237
<211> 260
<212> DNA
<213> Zea mays

<400> 1237

cgctctcct cctctcctcc cccacccgtc catcgccctt ccctccggtc tgcgctccca 60
cagcctcacc cctgcgcccc cgccgattcg cgtcgccctt tggtggaagg aacgatggag 120
cagaccttca tcatgatcaa gcccgacggc gtccagcggg gcctgatcgg ggacatcatc 180
agtcgcttcg agaagaaagg gttctacctc aaggggatga agttcatgaa cgtggagagg 240
tccttcgcgc acagcactac 260

<210> 1238
<211> 269
<212> DNA
<213> Zea mays

<400> 1238

cgacgcctct cctcctctcc cccccaccc gtccatcgcc cctccctccg gtctgcgctc 60
ccacagctc acccctgcgc ccccgccgat tcgcgtcgcc ctttggtgga aggaacgatg 120
gagcagacct tcatcatgat caagcccgac ggcgtccagc ggggcctgat cggggacatc 180

atcagtcgct tcgagaagaa agggttctac ctcaagggga tgaagttcat gaacgtggag 240
 aggtccttcg cgcacagcac tacgtgac 269

<210> 1239
 <211> 289
 <212> DNA
 <213> Zea mays

<400> 1239

acggcgcca gcggggcctg atcggggaca tcatcagtcg cttcgagaag aaagggttct 60
 acctcaagg gatgaagttc atgaacgtgg agaggtcctt cgcgcacagc actacgtga 120
 cctttccgac aagcctttct tccccgggtt ggtggagtac atcatttccg gccccgtgg 180
 ggcgatggtg tgggagggga aggacgtcgt gttgactggc cgcagatcat tggggcacca 240
 gccttgggag gcaccccggt acattctggg gatacgccgt gaatcgag 289

<210> 1240
 <211> 263
 <212> DNA
 <213> Zea mays

<400> 1240

ccctgacgct cgacgcctct cctcctctcc tccccaccc gtccatcgcc cctccctccg 60
 gtctgcgctc ccacagcctc acccctgcgc ccccgccgat tcgcgtcgcc ctttggtgga 120
 aggaacgatg gagcagacct tcatcatgat caagcccgac ggcgtccagc ggggcctgat 180
 cggggacatc atcagtcgct tcgagaagaa agggttctac ctcaagggga tgaagttcat 240
 gaacgtggag aggtccttcg cgc 263

<210> 1241
 <211> 264
 <212> DNA
 <213> Zea mays

<400> 1241

ccctgacgct cgacgcctct cctcctctcc tccccaccc gtccatcgcc cctccctccg 60
 gtctgcgctc ccacagcctc acccctgcgc ccccgccgat tcgcgtcgcc ctttggtgga 120
 aggaacgatg gagcagacct tcatcatgat caagcccgac ggcgtccagc ggggcctgat 180

cggggacatc atcagtcgct tcgagaagaa agggttctac ctcaagggga tgaagttcat 240
gaacgtggag aggtccttcg cgca 264

<210> 1242
<211> 257
<212> DNA
<213> Zea mays

<400> 1242

ctctcctcct ctccttacac aaccgtccat cgacgctccc tccggtctgc gctcccacag 60
cctcaccctt gcggtgccga tgattcgcgt cgccctttgt tggaatgacg atggagcaga 120
ccttcacatc gatcaagccc gacggcgtcc agcggggcct gatcggggac atcatcagtc 180
gcttcgagaa gaaaggggtc tacctcaagg ggatgaagtt catgaacgtg cagaggtcct 240
tctcgcgaag aattagg 257

<210> 1243
<211> 313
<212> DNA
<213> Zea mays

<220>
<221> unsure
<222> (1)..(313)
<223> unsure at all n locations

<400> 1243

ggaaggaacg atggagcaga ccttcacatc gatcaagcac gacggcgtcc agcgnngcct 60
gatcngggac atcatcagtc gcttcgagaa gaaggggtct acctcaaggg gatgaagttc 120
atgaacgtgg agaggtcttc gcgcagagca ctacgtgac ctttccgaca agccttntct 180
tcccgggggt ggtggagtac atcatttccg gcccgtggg ggcatgggtg tgggagggga 240
aggacgtcgt gttgactggc cgcagatcat tggggccacc agcttgggag gcaccccggt 300
acattcgtgg gat 313

<210> 1244
<211> 270
<212> DNA
<213> Zea mays

<400> 1244

gtggagaacg ggaagaagga gatcgctctc tggttccctg aaggtgtggc acagtggaag 60

agcaaccttc atccctggat ctacgaggct tgagcagttg agcttggatg ccttgccctgc 120

tccatggaaa ccagagtttt gtttgagtat tatctgttgg ctctggctga agagtcataa 180

tttagcgctc tgtgtgttac accagagtta agtctgcctg aacttatgtg gcatttgttt 240

gagtttctgc cttcgtgccc tgttttctaa 270

<210> 1245

<211> 275

<212> DNA

<213> Zea mays

<400> 1245

tagaggagat cgctctctgg ttccctgaag gtgtggcaca gtggaagagc aaccttcac 60

cctggatcta cgaggcttga acagttgagc ttggatgact tgccctgcttc catggaaacc 120

agagttttgt ttgagtatta tctgttggct ctggctgaag agtcataatt tagcgctctg 180

tgtgttacac cagagttaag tctgcctgaa cttatgtggc atttgtttga gtttctacct 240

tcgtgccctg ttttctaatag taccgtgggt gtgaa 275

<210> 1246

<211> 271

<212> DNA

<213> Zea mays

<400> 1246

actaattggt gccacagacg cacagagatc tgaaccagga accatcaggg gtgatcttgc 60

cattgttggt ggaagagaca tcattcatgg aagtgatggc ccagagacag cgaaggatga 120

gatcgcttta tggtttgaac ccaaggactg gtctottaca ccagcaatgc ggagaagtgg 180

atcaatttaa aagaattaac gagagagtca atctgttttt tttccttctt ttgatctcgg 240

ttttcacata attgccgaca gacctaggca c 271

<210> 1247

<211> 404

<212> DNA

<213> Zea mays

<220>
 <221> unsure
 <222> (1)..(404)
 <223> unsure at all n locations

 <400> 1247

 aacggacgcg tgggtgcgct cccacagcct caccctcgcg ccccgcgga ttcgcgctcg 60
 cctttgttgg aaggaacgat ggagcagacc ttcacatga tcaagccga cggcgctccag 120
 cggggcctga tcggggacat catcagtcgc ttcgagagga aagggttcta ccgcaagggg 180
 atgaagtgca tgaacgtgta gaggtccttc gcgcaggagc actacgcggg ggggggcggc 240
 aacgcgtggg ttggcnngtg tggtnagcg ggtgattgcc ggccccgtgg gggctggggg 300
 gtgggagggg aaggacgtcg tgttgactgg ccgcaggatc attggggcca ccaggccttg 360
 ggaggcagcc cccggtacca ttcgtgggga ctacgccgtg gaag 404

<210> 1248
 <211> 347
 <212> DNA
 <213> Zea mays

 <400> 1248

 tcgcccactc gttcgctccac tctttcgcggt ccatcgcccc ctccctccgg tctgcgctcc 60
 cagagcctct cccctgcgcc cccgccgatt cgcgtctccc tttgttgga ggaacgatgg 120
 agcagacctt catcatgac aagccccgacg gcgtccagcg gcgcctgac ggggacatca 180
 tcagtcgctt cgagaagaaa gggttctacc tcaaggggat gaagttcatg aacgtggaaa 240
 ggtccttcgc tcatcagcac tacgctgacc ttccgacaa gcctttcttc cccgggttgg 300
 tggagtacat catttcgggc cccgtggtgg cgattgtgtg ggaaggg 347

<210> 1249
 <211> 340
 <212> DNA
 <213> Zea mays

 <400> 1249

 gcggagcaga cttcatcat gatcaagccc ggcggcgctc agcggggcct gatcggggac 60
 atcagcagtc gcttcgagag gaggggggtt tacctcaagg ggatgaagtt catgaacgtg 120
 gagaggtcct tcgcgagca gcaactacgt gacctttccg acaagccttt cttccccggg 180

ttggtggagt acatcatttc cggccccgtg gtggcgatgg tgtgggaggg gaaggacgtc 240
 gtgttgactg gccgcaggat cattggggcc accaggcctt gggaggcagc ccccggtacc 300
 attcgtgggg actacgccgt ggaagtcggc aagaatgtca 340

<210> 1250
 <211> 464
 <212> DNA
 <213> Zea mays

<400> 1250

cggacgcgtg ggctccccca cccgtccatc gccccctccc tccggtctgc gctcccacag 60
 gctcgccccct gcgccccgcg cgattcgcgt cgccctttgt tggaaggaa gatggagcag 120
 accttcacatca tgatcaagcc cgacggcgctc cagcggggcc tgatcgggga catcatcagt 180
 cgcttcgaga agaaaggggt ctacctcaag ggtaagtgcg tttcattttg ttctcgaatt 240
 gattgctgga acacgtactc tgtttaaatt tcctagctat acgcatgaac ttctctgctg 300
 ttgaggcaag atttgatgtg cagattctgg tgatatctta gaattgttta atctatgtat 360
 acgttcgggt gcgtgtgatc accatctgaa aaaggatgtt ggtcgtggaa gcaggaatat 420
 tgcgtggaga ttagatttga ttgaaaacca ttatcttgat gtca 464

<210> 1251
 <211> 504
 <212> DNA
 <213> Zea mays

<220>
 <221> unsure
 <222> (1)..(504)
 <223> unsure at all n locations

<400> 1251

cgcgggggtg ngaaacgatc attcggcgag cncgggtccga actatccggg gccagcacg 60
 cgtccggagc tgtgctctgc tctgctctcg cctcgcaagg actcgtggta aaggatggag 120
 accatgtcgg ctctcgcgag gacggcgccg ccccttgctg ggaccattcg ccggccctca 180
 tgcgcgctga ggccgacggc gtccctctcc ttcgccgccc cttcaacgac gccccgcggc 240
 cggctcgggc tggggctgag cacggcgccc gcggggagcg ggagggcggc cagggctcgc 300

gccgtcccgcc gccgcacgtc cgcctcctcg gaggttgagc aaagctacat tatgatcaaa 360
ccagatgggtg ttcagcgtgg tctgggtgga gagattatct ctcgctttga gaagaaaggg 420
tttttggtga aaggcttaaa acttttccag tgccccaagg acttggcgca ggagcattac 480
aaggatttga agggataaac tttc 504

<210> 1252
<211> 233
<212> DNA
<213> Zea mays

<400> 1252

gtttttgcag ttagtagaat atgttagtgg ctctatgat agggtggaag gatttgagtt 60
attgaatgag gcaatctctg agtatgagac ttcagaaaac aatgactcgg gaagctaccg 120
cagattatct tatttggtat tgctccatc agtctaccca tcagtatgcg agatgataag 180
atcatattgc atgagtccat cttcacacac cggttggaca agggttattg ttg 233

<210> 1253
<211> 180
<212> DNA
<213> Zea mays

<400> 1253

tcgttcggca gcagcaacga ggtgctggat gggacgccga cgggagatgg ggcaccgggg 60
caggggcagc ggggagcggc caccgtcagc atcacggtcg tcggcgccctc cggcgacctc 120
gccaagaaga agatcttccc ggccctcttc gccttggtct acgagggctg gctcccggag 180

<210> 1254
<211> 137
<212> DNA
<213> Zea mays

<400> 1254

cacagatctt gatagggccca ctaatgagct tgtgatacgt gtgcaaccgg atgaagcaat 60
ttacctaaag attaacaaca agattcctgg tctcggtatg cgactagata ggagtaactt 120
gaatctccat tatgccg 137

<210> 1255

<211> 272
 <212> DNA
 <213> Zea mays

 <400> 1255

 ggaggacaaa cttttcggtt gggtgctgga cgactgcggg gattgctcag ttgccgaggg 60
 atgccttatg gacacaaaca atgatcccat cgatgttgat gcacacatgt acaggtatca 120
 tctacatggt ttacaatata tatttttttag gagttacttt taaaaaatat tagaaaaccc 180
 cttctttgat attttcaatt tttttggtgg cttaaaaaaa caagaaagta aattttacaa 240
 accttagaga tgggtctaagt cgtccatgca ta 272

<210> 1256
 <211> 264
 <212> DNA
 <213> Zea mays

 <400> 1256

 cccacgcgtc cgctgatttc aggttcatat ttgatgcaat gcatgcaatt actggtgcgt 60
 atgccggacc catttttggt gagaaacttg gagctgatcc ggactgcata ttaaattggg 120
 tgccctcttga agattttgga aatggccatc cagatccaaa tctaacttac gctaaggagc 180
 ttgtttttac tatgtttgga gcccatgcac ctgacttttg tgcaacaagt gatggtgatg 240
 gtgatcgga catgattctt ggga 264

<210> 1257
 <211> 299
 <212> DNA
 <213> Zea mays

 <400> 1257

 gtcatttacc tggtgatgga gccataatga taacagcaag ccatctcccc tacaatcgga 60
 atggtctcaa gttttttaca agtgatggtg ggctaaataa agctgatatc aaagatatcc 120
 tggagcgtgc ttccaaaata tatgaggaat ctgcacataa taacctgaaa gaacaggggg 180
 aagcttcgaa gggagttgtc actaatgtgg actacatgtc aatttatgct tctgatcttg 240
 tacaagcagt tcgtaaatct gctggagaca aagaaaaacc attggaggaa ctgcatata 299

<210> 1258

<211> 242
 <212> DNA
 <213> Zea mays
 <400> 1258
 atctgggctg tgtctggcgt tgctttccat acttgcagac cggaacaagg ataaggatgt 60
 cggagagggga ttagtgtcag ttgaagatat tgctatggag cactggaaaa cctatggcag 120
 gaatttcttg tctagatacg attatgaggc gtgtgaatca cacagtgcaa accagatgat 180
 ggatcacggt agagatgtta tggcaaatag caagcctgga gagaaatacg gaaattacac 240
 cc 242

<210> 1259
 <211> 224
 <212> DNA
 <213> Zea mays
 <400> 1259
 cggacgcgtg gcgagacgcg tgggcttgta caagcagttc gtaaactctgc tggagacaaa 60
 gaaaaaccat tggaggaact gcatatagtc gttgatgcag ggaatgggtgc tgggtggtttt 120
 tttgtggata aggtactcaa accattagga gctgttacca ctggaagtca attccttgag 180
 cctgatgggt tgtttcccaa tcacattccc aaccctgagg acaa 224

<210> 1260
 <211> 304
 <212> DNA
 <213> Zea mays
 <400> 1260
 gggagcctta tcagggatct gcaggagccc gccgagtcg tgctcctccg gatggacatc 60
 atgggtgagc ccaaggatgc caaggaaagg gccacacatg cagttgaggc ttttaagaac 120
 tacatccagg aggacaaact tttcggttg gtgctggacg actgcgggga ttgctcagtt 180
 gccgagggat gccttatgga cacaacaat gatcccatcg atgttgatgc acacatgtac 240
 agagcaaaac tatacgacga gaatcagaga gcagtaggca tgggtccacat tcgtcaaagc 300
 gtgc 304

<210> 1261

<211> 347
 <212> DNA
 <213> Zea mays

<220>
 <221> unsure
 <222> (1)..(347)
 <223> unsure at all n locations

<400> 1261

tgtgtgactt cagatggatt gactgtatth attgaaaata nacttggagg gaagcatcac 60
 cgtttcaaac gaggggtacaa gaatgtaata gacgaggcta ttcgtctgaa ctctattggt 120
 gaggagtcac atttggccat gganacaagt gggcatggag cgctgaaaga gaaccactgg 180
 cttgatgatg gagcatacct tatggtcana cttttgaata aacttgctgc tgctagaaca 240
 ctgggttcaa gtattggtag taaagttttg actgatttgg ttgagggcct tgaagaagct 300
 gatgtgacag ttgaaataag gttaaagatt gatcagaatc atgcaga 347

<210> 1262
 <211> 287
 <212> DNA
 <213> Zea mays

<400> 1262

gaattttgaa aaggtgacgg aaatagtgag gagcggagaa caccggaatg atccatcctc 60
 tcgtgctatc cctgccctcc cccgtataa tategcgccc tcgtcgccat cgtcaccaca 120
 ccaccactcc ctcaactgcc tctcaactccc gatccctgca ccactaccgc ctctccgcg 180
 tcacccctct cgtcgcctct tgcgggcgacc ggcggcggat cgtcgcgtgc gctaggcaac 240
 catggggctc ttcaccgtga cgaagaaggc taccaccctc tcgaagg 287

<210> 1263
 <211> 338
 <212> DNA
 <213> Zea mays

<400> 1263

cacattcgtg agaaggatgg catctgggct gtgcttgcatt ggctttcaat tcttgccctc 60
 aagaataagg acaaccttgg aggagataag cttgtcactg ttgaagatat tgtccgtcag 120
 cactgggcca catatggtcg ccattactac acacgctatg actatgagaa tgttgatgca 180

ggggctgcta aggagcttat ggcaaaccta gtaagcatgc agtcatcact ttctgatgtt 240
 aacaagttgg tcaaggagat ccggtctgat gtttctgaag tagttgcagc tgacgagttt 300
 ttgtacaagg atcctgttga tggctctgtg tccaagca 338

<210> 1264
 <211> 341
 <212> DNA
 <213> Zea mays

<400> 1264

cacattcgtg agaaggatgg catctgggct gtgcttgcac ggctttcaat tattgctttc 60
 aagaataagg acaaccttgg aggagataag cttgtcactg ttgaagatat tgtccgtcag 120
 cactgggcca catatggctg ccattactac acacgctatg actatgagaa tgttgatgca 180
 gcttctgcta aggagcttat ggcaaaccta gtaagcatgc agtcatcact ttctgatgtt 240
 aacaagttgg tcaaggagat ccggtctgat gtttctgaag tagttgcagc tgacgagttt 300
 gagtacaagg atcctgttga tggctctgtg tccaagcacc a 341

<210> 1265
 <211> 314
 <212> DNA
 <213> Zea mays

<400> 1265

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 cagctgatgg agatgctgac cgcaacatga ttcttggtaa aagattcttt gtgacaccgt 180
 cggactctgt tgccattatc gcagccaatg ctgttcaatc aattccttac tttgcttctg 240
 gcctgaaggg agttgccagg agcatgccaa catctgctgc tcttgatgtt gttgcaaaga 300
 atttgaacct taag 314

<210> 1266
 <211> 318
 <212> DNA
 <213> Zea mays

<400> 1266

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 tagtcatcct caaatgttga gcctcctgaa tttgggtgctg cagctgatgg agatgctgac 120
 cgcaacatga ttcttggtaa aagattcttt gtgacaccgt cggactctgt tgccattatc 180
 gcagccaatg ctgttcaatc aattccttac tttgcttctg gcctgaaggg agttgccagg 240
 agcatgccaa catctgctgc ccttgatggt gttgcaaaga atttgaacct taagttcttt 300
 gaggtgccta ctggatgg 318

<210> 1267
 <211> 304
 <212> DNA
 <213> Zea mays

<400> 1267

gtcacccgga tctaacctc acctatgcaa aagagttggt tgaacggatg ggtcttgga 60
 agtcatcctc aaatgttgaa cctcctgaat ttgggtgctgc agctgatgga gatgctgacc 120
 gcaacatgat tctgggtaaa agattctttg tgacaccatc ggactctgtt gccattatag 180
 cggccaatgc tgttcaatca attccttact ttgcttctgg cctgaaggga gttgccagga 240
 gcatgccaac atcagctgcc cttgatgttg ttgcaaagaa tttgaatctc aagttctttg 300
 aggg 304

<210> 1268
 <211> 298
 <212> DNA
 <213> Zea mays

<400> 1268

gagctgatgg caaacctagt aagcatgcag tcatcacttt ctgatgttaa caagttgatc 60
 aaggagatcc ggtctgatgt ttctgaagta gttgcagctg acgagtttga gtacaaggat 120
 ccagttgatg gctctgtgtc caagcaccag ggcacccgat acctcttcgg agatgggttca 180
 cgactgggtg tccgtctatc cggaaccggg tctgttggtg ccaccatccg tgtctacatc 240
 gagcaatacg agaaggattc ctccaagacc ggcagggatt cacaggaggc ccttgctc 298

<210> 1269
 <211> 294

<212> DNA
 <213> Zea mays
 <400> 1269
 gagataagct tgtcactggt gaagatattg tccgtcagca ctgggccaca tatggtcgcc 60
 attactacac acgctatgac tatgagaatg ttgatgcagg ggctgctaag gagcttatgg 120
 caaacctagt aagcatgcag tcatcacttt ctgatgttaa caagttgggtc aaggagatcc 180
 ggtctgatgt ttctgaagta gttgcagctg acgagtttga gtacaaggat cctgttgatg 240
 gctctgtgtc caagcaccag ggcacccgat acctcttttg agatggttca cgac 294

 <210> 1270
 <211> 328
 <212> DNA
 <213> Zea mays
 <400> 1270
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 ggtcttggaag agtcacctc aaatgttgaa cctcctgaat ttggtgctgc agctgatgga 120
 gatgctgacc gcaacatgat tctgggtaaa agattctttg tgacaccatc ggactctggt 180
 gccattatag cggccaatgc tgttcaatca attccttact ttgcttctgg cctgaaggga 240
 gttgccagga gcatgccaac atcagctgcc cttgatgttg ttgcaaagaa tttgaatctc 300
 aagttctttg aggtgcctac tgggtgga 328

 <210> 1271
 <211> 285
 <212> DNA
 <213> Zea mays
 <400> 1271
 ataagcttgt cactgttgaa gatattgtcc gtcagcattg ggccacatat ggtcgccatt 60
 attacacacg ctatgactat gagaatgtcg atgctggggc tgctaaggag ctgatggcaa 120
 acctagtaag catgcagtca tcaactttctg atgttaacaa gttgatcaag gagatccggt 180
 ctgatgtttc tgaagtagtt gcagctgacg agtttgagta caaggatcca gttgatggct 240
 ctgtgtccaa gcaccagggc atccgatacc tcttcggaga tggtt 285

<210> 1272
 <211> 284
 <212> DNA
 <213> Zea mays

 <400> 1272

 gttgcaaaga atttgaatct caagttcttt gaggtgccta ctgggtggaa attttttggg 60
 aatttgatgg atgctggaat gtgctcaatc tgtggtgaag aaagctttgg cactgggtct 120
 gaccacattc gtgagaaaga tggcatctgg gctgtgcttg catggctttc tattattgct 180
 ttcaagaata aggacaacct tggaggagat aagcttgtca ctgttgaaga tattgtccgt 240
 cagcattggg ccacatatgg tcgccattat tacacacgct atga 284

<210> 1273
 <211> 277
 <212> DNA
 <213> Zea mays

 <400> 1273

 agtttacatt ctgttatgat gcactccatg gtgttgccgg agcttatgcc aaacacatct 60
 ttgtggaaga gcttggtgct gatgaaagct cactgttgaa ttgtgtcccg aaagaggact 120
 ttggaggtgg tcatccggat cctaacctta cctatgcaaa agagttgggt gaacgcatgg 180
 gtcttggaag gtcactctca aatgttgagc ctctgaatt tgggtgctgca gctgatggag 240
 atgctgaccg caacatgaat cttggtaaaa gattctt 277

<210> 1274
 <211> 291
 <212> DNA
 <213> Zea mays

 <400> 1274

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 cattcgtgag aaggatggca tctgggctgt gcttgcattg ctttcaatta ttgctttcaa 120
 gaataaggac aaccttggag gagataagct tgtcactgtc gaagatattg tccgtcagca 180
 ctgggccaca tatggtcgcc attactacac acgctatgac tatgagaatg ttgatgcagg 240
 ggctgctaag gagcttatgg caaacctagt aagcatgcag tcatcacttt c 291

<210> 1275
 <211> 275
 <212> DNA
 <213> Zea mays

 <400> 1275

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 tgatgttaac aagttgatca aggagatccg gtctgatgtt tctgaagtag ttgcagctga 120
 cgagtttgag tacaaggatc cagttgatgg ctctgtgtcc aagcaccagg gcatccgata 180
 cctcttcgga gatgggtcac gactgggtgtt ccgtctatcc ggaaccgggt ctgttggtgc 240
 caccatccgt gtctacatcg agcaatacga gaagg 275

<210> 1276
 <211> 290
 <212> DNA
 <213> Zea mays

 <400> 1276

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 tggcctgaag ggagttgcc aagagcatgcc aacatcagct gcccttgatg ttgttgcgaa 120
 gaatgtgaat ctcaagttct ttgaggtgcc tactgggtgg aaattttttg ggaatttgat 180
 ggatgctgga atgtgctcag tctgtggtga agaaagcttt ggcactgggt ctgaccacat 240
 tcgtgagaga gatggcatct gggctgtgct tgcattggctt tctattattg 290

<210> 1277
 <211> 275
 <212> DNA
 <213> Zea mays

 <400> 1277

 cttcgaagca ataaaaaagc tactgacctc cccaaagttt acattctgtt atgatgcgct 60
 ccatgggtgtt gctggagctt atgccaaaaca catctttgtg gaagagcttg gtgctgatga 120
 aagctcactg ttgaatttg tcccaaaaaga ggactttgga ggtgggtcatc cggatcctaa 180
 cctcacctat gcaaaagagt tgggtgaacg gatgggtctt ggaaagtcac cctcaaagt 240
 tgaacctcct gaatttggtg ctgcagctga tggag 275

<210> 1278
 <211> 286
 <212> DNA
 <213> Zea mays

 <400> 1278

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 ccatccgtgt ctacatcgag cagtacgaga gggactcctc taagaccggc agggattcac 120
 aggacgcctt tgctccgctg gttgatttgc gctcaagctc tccaagatgc aagagtacac 180
 tggacgctct gccccaccg tcatcacata aattttgaag agtgtttttag aatgagttga 240
 ggcgcttaca caaatttcat tccggcctct tgttccatag tttttc 286

<210> 1279
 <211> 305
 <212> DNA
 <213> Zea mays

 <400> 1279

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 ttacttttgc tctggactga agggagtgc caggagcatg ccaacatctg ctgcccttga 120
 tgttggttgc aagaatttga accttaagtt ctttgaggtg cctactggat ggaagttttt 180
 tgggaatttg atggatgctg gaatgtgctc aatctgtggt gaagaaagct ttggcactgg 240
 gtctgaccac attcgtgaga aggatggcat ctgggctgtg cttgcatggc tttcaattat 300
 tgctt 305

<210> 1280
 <211> 271
 <212> DNA
 <213> Zea mays

 <400> 1280

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 aagattcttt gtgacaccgt cggactctgt tgccattatc gcagccaatg ctgttcaatc 120
 aattccttac tttgcttctg gcctgaaggg agttgccagg agcatgccaa catctgctgc 180
 ccttgatgtt gttgcaaaga atttgaacct taagttcttt gaggtgccta ctggatggaa 240
 gttttttggg aatttgatgg atgctggaat g 271

<210> 1281
 <211> 290
 <212> DNA
 <213> Zea mays
 <400> 1281
 ggacaacctt ggaggagata agcttgtcac tgttgaagat attgtccgtc agcattgggc 60
 cacatatggt cgccattatt acacacgcta tgactatgag aatgtcgatg ctggggctgc 120
 taaggagctg ttggcaaccc tagtaagcat gcagtcacatca ctttctgatg ttaacaagtt 180
 gatcaaggag atccggtctg atgtttctga agtagttgca gctgacgagt ttgagtacaa 240
 ggatccagtt gatggctctg tgtccaagca ccagggcatc cgatacctct 290

<210> 1282
 <211> 274
 <212> DNA
 <213> Zea mays
 <400> 1282
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 tctggcctga agggagttgc caggagcatg ccaacatctg ctgctcttga tgttgttgca 120
 aagaatttga accttaagtt ctttgaggtg cctactggat ggaagttttt tgggaatttg 180
 atggatgctg gaatgtgctc aatctgtggt gaagaaagct ttggcactgg gtctgaccac 240
 attcgtgaga aggatggcat ctgggctgtg cttg 274

<210> 1283
 <211> 253
 <212> DNA
 <213> Zea mays
 <400> 1283
 aagagcttgg tgctgatgaa agctcactgt tgaattgtgt cccaaaagag gactttggag 60
 gtggtcatcc ggatcctaac ctcacctatg caaaagagtt ggttgaacgg atgggtcttg 120
 gaaagtcac ctaaatgtt gaacctcctg aatttgggtgc tgcagctgat ggagatgctg 180
 accgcaacat gattctgggt aaaagattct ttgtgacacc atcggaactct gttgccatta 240
 tagcggccaa tgc 253

<210> 1284
 <211> 253
 <212> DNA
 <213> Zea mays

<400> 1284

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 aattccttac tttgcttctg gctgaaggg agttgccagg agcatgccaa catctgctgc 120
 tcttgatggt gttgcaaaga atttgaacct taagttcttt gaggtgccta ctggatggaa 180
 gttttttggg aatttgatgg atgctggaat gtgctcaatc tgtggtcgaa gaaagctttg 240
 gtactggggtc tga 253

<210> 1285
 <211> 249
 <212> DNA
 <213> Zea mays

<400> 1285

gcagtcatca ctttctgatg ttaacaagtt ggtcaaggag atccggtctg atgtttctga 60
 agtagttgca gctgacgagt ttgagtacaa ggatcctggt gatggctctg tgtccaagca 120
 ccagggcatc cgatacctct ttggagatgg ttcacgactg gtgttccgcc tctctggaac 180
 cggttctggt ggtgccacca tccgtgtcta catcgagcag tacgagaggg actcctctaa 240
 gaccggcag 249

<210> 1286
 <211> 259
 <212> DNA
 <213> Zea mays

<400> 1286

cgactggtgt tccccctctc tggaaccggt tctgttggtg ccaccatccg tgtctacatc 60
 gagcagtacg agagggactc ctctaagacc ggcagggatt cacaggacgc ccttgctccg 120
 ctggttgatg ttgcgctcaa gctctccaag atgcaagagt aactggacg ctctgcccc 180
 accgtcatca cataaatttt gaagagtgtt ttagaatgag ttgaggcgct tacacaaact 240
 ttcattccgg cctcttggt 259

<210> 1287
 <211> 248
 <212> DNA
 <213> Zea mays

 <400> 1287

 ctttgaggtg cctactggat ggaagttttt tgggaatttg atggatgctg gaatgtgctc 60
 aatctgtggt gaagaaagct ttggcactgg gtctgaccac attcgtgaga aggatggcat 120
 ctgggctgtg cttgcatggc tttcaattat tgctttcaag aataaggaca accttgagg 180
 agataagctt gtcactgtcg aagatattgt ccgtcagcac tgggccacat atggctgcga 240
 ttactaca 248

<210> 1288
 <211> 235
 <212> DNA
 <213> Zea mays

 <400> 1288

 caaccttgga ggagataagc ttgtcactgt tgaagatatt gtccgtcagc actgggccac 60
 atatggtcgc cattactaca cacgctatga ctatgagaat gttgatgcag gggctgctaa 120
 ggagcttatg gcaaacctag taagcatgca gtcactcactt tctgatgtta acaagttggt 180
 caaggagatc cggctctgatg tttctgaagt agttgcagct gacgagtttg agtac 235

<210> 1289
 <211> 233
 <212> DNA
 <213> Zea mays

 <400> 1289

 caattcetta ctttgcttct ggccctgaagg gagttgccag gagcatgcc aacatctgctg 60
 cccttgatgt tggtgcaaag aatttgaacc ttaagttcct tgaggtgcct actggatgga 120
 agtttttttg gaatttgatg gatgctggaa tgtgctcaat ctgtggtgaa gaaagctttg 180
 gcactgggtc tgaccacatt cgtgagaagg atggcatctg ggctgtgctt gca 233

<210> 1290
 <211> 253

<212> DNA
 <213> Zea mays
 <400> 1290
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 cgccattact acacacgcta tgactatgag aatgttgatg caggggctgc taaggagctt 120
 atggcaaacc tagtaagcat gcagtcacat ctttctgatg ttaacaagtt ggtcaaggag 180
 atccggctctg atgtttctga agtagttgca gctgacgagt ttgagtacaa ggatcctggt 240
 gatggctctg tgt 253

<210> 1291
 <211> 231
 <212> DNA
 <213> Zea mays
 <400> 1291
 gcacgagaaa gctttggcac tgggtctgac cacattcgtg agaaagatgg catctgggct 60
 gtgcttgcac ggctttctat tattgcttcc aagaataagg acaaccttgg aggagataag 120
 cttgtcactg ttgaagatat tgtccgtcag cattggggcca catatggctg ccattattac 180
 acacgctatg actatgagaa tgtcgatgct ggggctgcta aggagctgat g 231

<210> 1292
 <211> 223
 <212> DNA
 <213> Zea mays
 <400> 1292
 gtcacactt tctgatgtta acaagttgat caaggagatc cggctctgatg tttctgaagt 60
 agttgcagct gacgagtttg agtacaagga tccagttgat ggctctgtgt ccaagcacca 120
 gggcatccga tacctcttcg gagatggttc acgactgggtg ttccgtctat ccggaaccgg 180
 ttctgttggt gccgacatcc gtgtctacat cgagcaatac gag 223

<210> 1293
 <211> 232
 <212> DNA
 <213> Zea mays
 <400> 1293

cccacgcgtc cggttgaaga tattgtccgt cagcactggg ccacatatgg tcgccattac 60
 tacacacgct atgactatga gaatgttgat gcaggggctg ctaaggagct tatggcaaac 120
 ctagtaagca tgcagtcatc actttctgat gttaacaagt tggtaagga gatccggtct 180
 gatgtttctg aagtagttgc agctgacgag tttgagtaca aggatcctgt tg 232

<210> 1294
 <211> 245
 <212> DNA
 <213> Zea mays
 <400> 1294

gagatccggt ctgatgtttc tgaagtagtt gcagctgacg agtttgagta caaggatcca 60
 gttgatggct ctgtgtccaa gcaccagggc atccgatacc ttttcggaga tggttcacga 120
 ctggtgttcc gtctatccgg aaccggttct gttggtgcc aatccgtgt ctaattgggc 180
 aatacgagaa gggttcctcc aagaccggca gggattcaca ggaggccctt gctccactgg 240
 ttgat 245

<210> 1295
 <211> 214
 <212> DNA
 <213> Zea mays
 <400> 1295

cttgaggagc ataagcttgt cactgttcaa catattcgtc cgccagcact gggccacata 60
 cggtcgccac tactacacac gctaccgcca cgagaacgct gatgcacggg ctgctaagga 120
 ccttacgcgc aaacctagta accgtgcagt catcactttc tgatgctaac aagctggtca 180
 aggagatccg gtctgatgtc ttctgaagta cctg 214

<210> 1296
 <211> 226
 <212> DNA
 <213> Zea mays
 <400> 1296

cccacgcgtc cgcccacgcg tccggaaggg agttgccagg agcatgccaa catctgctgc 60
 tcttgatgtt gttgcaaaga atttgaacct taagttcttt gaggtgccta ctggatggaa 120

gttttttggg aatttgatgg atgctggaat gtgctcaatc tgtggtgaag agagctttgg 180
 cactgggtct gaccacattc gtgagaagga tggcatctgg gctgtg 226

<210> 1297
 <211> 199
 <212> DNA
 <213> Zea mays

<400> 1297

ccttggagga gataagcttg tcaactgtcg agatattgtc cgtcagcact gggccacata 60
 tggtcgccat tactacacac gctatgacta tgagaatggt gatgcagggg ctgctaagga 120
 gcttatggca aacctagtaa gcatgcagtc atcactttct gatgttaaca agttgggtcaa 180
 ggagatccgg tctgatgtt 199

<210> 1298
 <211> 297
 <212> DNA
 <213> Zea mays

<400> 1298

gttctagatc gcgatctgcc gccctttttt tttttttttt ttttgctcaa acaaaaccag 60
 aaacacttcc taacaagatt acaagaaaca cgctcccgat tacagcactg tcaatgtgac 120
 aagattatta ccgcatgctg tgccagcggc tcagtcogct gcactgcagt acatggacaa 180
 aaaaaaaacg gggcgagtct gatacataca ttttattcat tggtgagatg caacaggaag 240
 tagaactata gaacaagagg cttgaatgaa aatttgtgta agcgcctcaa ctcattg 297

<210> 1299
 <211> 310
 <212> DNA
 <213> Zea mays

<220>
 <221> unsure
 <222> (1)..(310)
 <223> unsure at all n locations

<400> 1299

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ggataaatc tgttaacatg tggatatatan atggggccaa tcacttgtgt tctgaccaca 120
 ttcgtgagaa ggatggcatc tgggctgtgc ttgcatggct ttcaattatt gctttcaaga 180
 ataaggacaa ccttggagga gataagcttg tcactgttga agatattgtc cgtcagcact 240
 gggccacata tggtcgccat tactacacac gctatgacta tgagaatgtt gatgcagggg 300
 ctgctaagga 310

<210> 1300
 <211> 211
 <212> DNA
 <213> Zea mays

<400> 1300

agtacctaca ggggtgaaat tttttgggaa tttgatggat gctggaatgt gctcaatctg 60
 tgggtgaagaa agctttggca ctgggtctga ccacattcgt gagaaagatg gcatctaggc 120
 tgtgcttgca tggctttcta ttattgcttt caagaataag gacaaccttg gaggagataa 180
 gcttgtcact gttgaagata ttgtccgtca g 211

<210> 1301
 <211> 218
 <212> DNA
 <213> Zea mays

<220>
 <221> unsure
 <222> (1)..(218)
 <223> unsure at all n locations

<400> 1301

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 cttatggcaa acctagtaag catgcagtca tcactttctg atgttaacaa gttgtttnc 120
 ggagatcggc ctgatgtttc tgatgtagtt gcagctgacg agtttgagta caaggatcct 180
 gttgatggct ctgtgtccaa gcaccagggc atccgata 218

<210> 1302
 <211> 173
 <212> DNA
 <213> Zea mays

<400> 1302

actattattg ctttcaatca taaggacaaa cttggaagag ataagcttgt cactgttgaa 60
gatattgtcc gtcagcattg ggcgacatat ggctgccatt attacacacg ctatgactat 120
gagaatgtcg atgctggggc tgctaaggcg ctgatggcaa acctaataag cat 173

<210> 1303
<211> 264
<212> DNA
<213> Zea mays

<400> 1303

ccctctccct tttttttttt tgagtaaatt attttttagta ctcagaaaaa aagataagca 60
aatgctcaaa caaaaccaga aacacttcct aacaagatta caagacacac gctcccgatt 120
acagcactgt cactgtgaca agattattac cgcagtctgt gccagcggct cagtccgctg 180
cactgcagta catggacaaa aaaaaaacgg ggcgagtctg atacatacat tttattcatt 240
ggtgagatgc aacaggaagt agaa 264

<210> 1304
<211> 198
<212> DNA
<213> Zea mays

<400> 1304

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tttgtccatg tactgcagtg cagcggactg agccgctggc acagcatggc ggtaataatc 120
ttgtcacagt gacagtgtg taatcgggag cgtgtttctt gtaatcttgt taggaagtgt 180
ttctggtttt gtttgagc 198

<210> 1305
<211> 303
<212> DNA
<213> Zea mays

<400> 1305

caaatgacca tctggaacac tgtttctgct aatgccagcc ttttcatctt ctgcttgtat 60
gcagctgtcc ggtcttagat gcatttgaaa tttctctatg cactgaacac tacttatgtt 120
attccattat tgtaataaca ggagcatgcc aacatctgct gctcttgatg ttgttgcaaa 180

gaatttgaac ctttaagttct ttgaggtgcc tactggatgg aagttttttt gggaatttga 240
 tggatgctgg aatgtgctca atctgtggtg aagaaagctt tggcactggg tctgaccaca 300
 ttc 303

<210> 1306
 <211> 122
 <212> DNA
 <213> Zea mays

<400> 1306

ctttctgatg ttaacaagtt ggtcaaggag atccggtctg atgtttctga agtagttgca 60
 gctgacgagt ttgagtacaa ggatcctgtt gatggctctg tgtccaagca ccagggcatc 120
 cg 122

<210> 1307
 <211> 118
 <212> DNA
 <213> Zea mays

<220>
 <221> unsure
 <222> (1)..(118)
 <223> unsure at all n locations

<400> 1307

cggctctgatg tntctgaagt agtgcagctg acgagtntga gtacaaggat cctgttgatg 60
 gctctgtgtc caagcaccag ggcacccgat acctctttgg agatgggttca cgactggg 118

<210> 1308
 <211> 291
 <212> DNA
 <213> Zea mays

<400> 1308

caaatgacca tctggaacac tgtttctgct aatgccagcc ttttcatctt ctgcttgat 60
 gcagctgtcc ggtcttagat gcatttgaaa tttctctatg cactgaacac tacttatgtt 120
 attccattat tgtaataaca ggagcatgcc aacatctgct gctcttgatg ttgttgcaaa 180
 gaatttgaac ctttaagttct ttgaggtgcc tactggatgg aagttttttt gggaatttga 240

tggatgctgg aatgtgctca atctgtggtg aagaaagctt tggcactggg t 291

<210> 1309
 <211> 104
 <212> DNA
 <213> Zea mays

<400> 1309

caactctaag accggcaggg attcacagga cgcccttgca ccgcaggttg atgtagcgt 60

caagctcacc aagatgcaag agtacacagg acgctcagcc ccca 104

<210> 1310
 <211> 321
 <212> DNA
 <213> Zea mays

<400> 1310

tgctcctccg ccgggacgcc gtcagccgcc caggcgtca agatcagttc aatcccgacc 60

aagccagttg aggggcagaa gactgggact agtggcctga ggaaaaaggt gaaagtattc 120

cagcaggaga actaccttgc taattggatt caggctctat tcaattcctt gccccctgaa 180

gattatgtgg gtgcaaccct tgtacttggg ggtgatggcc ggtactttaa caaggaggct 240

gctcagatca tcattaagat tgcagctgga aatggagttc agaagatcat agttggcagg 300

aatggtctac tgtcaacacc t 321

<210> 1311
 <211> 306
 <212> DNA
 <213> Zea mays

<400> 1311

ccacgcgtcc gccacgcgtc cgcccacgcg tccgccacgc gtccgggacc tgggatattc 60

cagcaggaga actaccttgc taattggatt caggctctat tcaattcctt gccccctgaa 120

gattatgtgg gtgcaaccct gtacttgggg gtgatggccg gtactttaac aaggaggctg 180

ctcagatcat cattaagatt gcagctggaa atggagttca gaagatcata gttggcagga 240

atggtctact gtcaacacct gctgtatctg ctgtaattcg taaaagaaaa gccaatggcg 300

gcttta 306

<210> 1312
 <211> 311
 <212> DNA
 <213> Zea mays

 <400> 1312

 cttgtacttg ggggtgatgg ccggtacttt aacaaggagg ctgctcagat catcattaag 60
 attgcagctg gaaatggagt tcagaagatc atagttggca ggaatggtct actgtcaaca 120
 cctgctgtat ctgctgtaat tcgtaaaaga aaagccaatg gcggctttat catgagtgc 180
 agccataatc caggtggacc agacaatgac tgggggtatta agtttaacta cagcagtga 240
 cagccagcac cggagacgat tactgatcaa atttatggaa acacactatc aatttctgaa 300
 ataaaaacag c 311

<210> 1313
 <211> 265
 <212> DNA
 <213> Zea mays

 <400> 1313

 ttcagaagat catagttggc aggaatggtc tactgtcaac acctgctata tctgctgtaa 60
 ttcgtaaaag ataagccaat ggcggcttta tcatgagtgc aagccataat ccaggtggac 120
 cagacaatga ctgggggtatt aagtttaact acagcagtgg acagccagca ccggagacga 180
 ttactgatca aatttatgga aacacactat caatttctga aatacaaaca gcagacattc 240
 ctgatactga tttgtcctct gttgg 265

<210> 1314
 <211> 302
 <212> DNA
 <213> Zea mays

 <400> 1314

 cgtcatcaca taaattttga agaacgtttt agaatgagtt gaggcgctta cacaaacttt 60
 cattccggcc tcttggtcca tagtttttct tgcattgttac atctcaccga tgaataaaat 120
 gtatgtatca gacttgtctc gtttttttgc ccatccaagc agcaaattag ccgctggcac 180
 agcatgcggt aataatcttg tcacagtgtc gtaattggga gcgtttttct tgttagaagt 240

gtttctgggtt tgtttgagca ttgcggtatc gatttttctt tctgaagagt ataaattatt 300

tt 302

<210> 1315

<211> 300

<212> DNA

<213> Zea mays

<400> 1315

tctcactccc gtgtcgtgtc tagcgccgac gggttgctac cggagccggc cagcggccac 60

gatgcctaca atgcacgcgc ttgcctatg cccgctgctc tccaccatcc gatccacacc 120

accgcggggc actgccgcag cccgccaggc gcgctcttcg tcgcccgtg ctctctcgcc 180

gggacgccgt cagccgcca ggcgtcaag atcagttcaa tcccgaccaa gccagttgag 240

gggcagaaga ctgggactag tggcctgagg aaaaaggtga aagtattcca gcaggagaac 300

<210> 1316

<211> 356

<212> DNA

<213> Zea mays

<220>

<221> unsure

<222> (1)..(356)

<223> unsure at all n locations

<400> 1316

cgatccctgc accactaccg cctcctccgc ttcacccctc tcgtcgctc ttgcggcgac 60

cggcgggcgga tcgtccgcgg cngcaacgca accatggggc tttcaccgt gacgaagaag 120

gccaccaccc ccttcgaagg ccagaagccc ggtacctccg gcctccgcaa gaaggttact 180

gtattccagc agcctcatta tctgcagaac tttgtccagt caacattcaa tgcccttctt 240

gcagaccaag taaaaggtgc aaccattgtt gtctctggtg atggccgcta tttctcaaaa 300

gatgctgttc agatcataac aanaatggct gctgccaatg gagtaagacg tgtttg 356

<210> 1317

<211> 304

<212> DNA

<213> Zea mays

<400> 1317

ctgtcatccg tgaaagaatt ggtgcagatg gatcaaaggc tactggtgcc ttcattctga 60
cagcgagcca taaccaggt ggtcctacgg aggactttgg tatcaaatac aatatgggaa 120
atggtggacc tgccctgaa tccgttaccg acaagatttt ctctaataca acgacaatct 180
ctgaatacct catctctgaa gaccttccag atgttgatat ttctgttggtc ggtgtcacca 240
gcttcagtgg acccgaagcc cctttgatgt ggatgtcttt gactctagtg taaattacat 300
aaag 304

<210> 1318
<211> 307
<212> DNA
<213> Zea mays

<400> 1318

cccacgcgtc cgggtgatgg ccgctatttc tcaaaagatg ctgttcagat cataacaaaa 60
atggctgctg ccaatggagt aagacgtgtt tgggttggac aaaacagtct catgtctact 120
cctgctgtat ctgctgtcat ccgtgaaaga gttggtgcag atggatcaaa ggctactggt 180
gccttcatct tgacagcgag ccataacca ggtggtccta aggaggactt cgggatcaaa 240
tacaacatgg gaaatggtgg gcctgctcct gaatctgtta ccgacaagat tttctctaata 300
acaacga 307

<210> 1319
<211> 292
<212> DNA
<213> Zea mays

<400> 1319

aagcccggta cctccggcct ccgcaagaag gttactgtat tccagcagcc tcattatctg 60
cagaactttg tccagtcaac attcaatgcc cttcctgcag accaagtaaa aggtgcaacc 120
attgttgtct ctggtgatgg ccgctatttc tcaaaagatg ctgttcagat cataacaaaa 180
atggctgctg ccaatggagt aagacgtgtt tgggttggac aaaacagtct catgtctact 240
cctgctgtat ctgctgtcat ccgtgaaaga attggtgcag atggatcaaa gg 292

<210> 1320
<211> 294

<212> DNA
 <213> Zea mays
 <400> 1320
 gcagaacttt gtccaatcaa cattcaatgc ccttcctgtg gatcaagtaa gacgtgcaac 60
 aattgttgtc tctgggtgatg gccgctatct ctcaaaagat gctgttcaga tcataacaaa 120
 aatggctgct gccaatggag taagacgtgt ttggggttga caaacagtc tcatgtctac 180
 tctgtctgta actgctgtca tccgtgaaag agttgggtgca gatggatcaa aggctactgg 240
 tgccttcacg ttgacagcga gccataaccc aggtgggtcct aaagaggact tcgg 294

<210> 1321
 <211> 312
 <212> DNA
 <213> Zea mays
 <400> 1321
 cctctcactc ccgatccctg caccactacc gcctcctccg cgtcaccctt ctctctgcct 60
 cttgcggcga ccggcggcgg atcgtccgca gcgcaagcgc aaccatgggg ctcttcaccg 120
 tgacgaagaa ggccaccacc cccttcgaag gccagaagcc cggtaacctc ggctctcgca 180
 agaaggttac tgtattccag cagcctcatt atctgcagaa ctttgtccag tcaacattca 240
 atgcccttcc tgcagaccaa gtaaaagggtg caaccattgt tgtctctggt gatggccgct 300
 atttctcaaa ag 312

<210> 1322
 <211> 284
 <212> DNA
 <213> Zea mays
 <400> 1322
 gtgcagatgg atcaaaggct actggtgcct tcctcttgac agcgagccat aaccaggtg 60
 gtcctaagga ggacttcggg atcaaataca acatgggaaa tgggtggcct gctcctgaat 120
 ctgttaccga caagattttc tctaatacaa cgacaatctc tgaatacctc atctctgaag 180
 acctaccaga tgttgatatt tctgttgctg gtgtcaccag cttcagtga cccgaaggcc 240
 cctttgatgt ggatgttttt gactctagtg tagattacat aaag 284

<210> 1323
 <211> 310
 <212> DNA
 <213> Zea mays

<400> 1323

tatgcagatg gatcaaaggc tactggtgcc ttcattctga cagcgagcca taaccaggt 60
 ggctctacgg aggacttttg tatcaaatac aatatgggaa atggtggacc tgccctgaa 120
 tccgttaccg acaagatttt ctctaataca acgacaatct ctgaatacct catctctgaa 180
 gaccttccag atgttgatat ttctgttgtc ggtgtcacca gcttcagtgg accgaaggc 240
 ccctttgatg tggatgtctt tgactctagt gtaaattaca taaagttaat gaagacaatt 300
 tttgacttcg 310

<210> 1324
 <211> 296
 <212> DNA
 <213> Zea mays

<400> 1324

ccgatccctg caccactacc gcctcctccg cttcaccctt ctgctgcct cttgcggcga 60
 ccggcggcgg atcgctccga gcgcaacgca accatggggc tcttcaccgt gacgaagaag 120
 gccaccaccc ccttcgaagg ccagaagccc ggtacctccg gcctccgcaa gaaggttact 180
 gtattccagc agcctcatta tctgcagaac tttgtccagt caacattcaa tgcccttctt 240
 gcagaccaag taaaagggtgc aactattgtt gtctctggtg atggccgcta tttctc 296

<210> 1325
 <211> 265
 <212> DNA
 <213> Zea mays

<400> 1325

gaaatggtgg gcctgctcct gaatctgtta ccgacaagat tttctctaata acaacgacaa 60
 tctctgaata cctcatctct gaagacctac cagatgttga ttttctgtt gtcggtgtca 120
 ccagcttcag tggacctgaa ggcccccttg atgtggatgt ttttgactct agtgtagatt 180
 acataaagtt aatgaagtca atttttgact tcgaagcaat aaaaaagctg ctgacctccc 240
 caaagtttac attctgttat gatgc 265

<210> 1326
 <211> 281
 <212> DNA
 <213> Zea mays

<220>
 <221> unsure
 <222> (1)..(281)
 <223> unsure at all n locations

<400> 1326

cctcactgcc ctctcactcc cgatccctgc accactaccg cctcctccgc gtcacccctc 60
 tcgtcgccctc ttgcggcgac cggcggcgga tcgtccgcag cgcaagcgca accatggggc 120
 tcttcaccgt gacgaagaag gccaccaccc ccttcgaagg ccagaagccc ggtacctccg 180
 gcctccgcaa gaaggttact gtattccagc agcctcatta tctgcagaac tttgtccagt 240
 caacattcaa tgccttcct gcagaccaag tanaagggtgc a 281

<210> 1327
 <211> 250
 <212> DNA
 <213> Zea mays

<220>
 <221> unsure
 <222> (1)..(250)
 <223> unsure at all n locations

<400> 1327

gtcctaagga ggacttcggg atcaaataca acatgggaaa tgggtgggcct gctcctgaat 60
 ctgttaccga caagattttc tctaatacaa cgacaatctc tgaatacctc atctctgaag 120
 acctaccaga tggtgatatt tctgttgctg gtgtcaccag cttcagtgga cccganatcc 180
 cctttgatgt ggatgttttt gactctagt tagattacat aaagttaatg aagacaattt 240
 ttgacttcga 250

<210> 1328
 <211> 255
 <212> DNA
 <213> Zea mays

<400> 1328

gaaatggtgg gcctgctcct gaatctgtta cgcacaagat tttctctaata acaacgacaa 60
tctctgaata cctcatctct gaagacctac cagatattga ttttctgtt gtcggtgtca 120
ccagcttcag tggacctgaa ggcccccttg atgtggatgt ttttgactct agtgtagatt 180
acataaagtt aatgaagtca atttttgact tcgaagcaat aaaaaagctg ctgacctccc 240
caaagtttac attct 255

<210> 1329
<211> 267
<212> DNA
<213> Zea mays

<400> 1329

cccacgcgtc cgccactcct tccctgcct ctcactcccg atccctcctc caccaccgct 60
tcctccgcgt caccctctc gtcgtcgct cagcaggcga ccagcggcgg accctccgcg 120
gcgcaaccat ggggctcttc actgtgacga agaaggccac cagcccttc gacggccaga 180
agcccggcac ctccggcctc cgcaagaagg ttactgtatt ccagcagccc cattatctgc 240
agaactttgt ccaatcaaca ttcaatg 267

<210> 1330
<211> 308
<212> DNA
<213> Zea mays

<400> 1330

cggaccgtgg cggaaatagt gaggagcggga gaacaccgga atgatccatc ctcttgtgct 60
ttccctgccc ttccccgcta taatatcgcg cctcgtcag catcgtcacc acaccagcac 120
tccctcactg ccctctcact cccgatccct gcaccactac cgctcctcc gcttcagccc 180
tctcgtcgcc tcttgcgcg accggcgcg gatcgtccgc ggcgcaacgc aaccatgggg 240
ctcttcaccg tgacgaagaa ggccaccacc cccttcgaag gccagaagcc cggtagctcc 300
ggcctccg 308

<210> 1331
<211> 244
<212> DNA
<213> Zea mays

<400> 1331

gaaatggtgg gcctgctcct gaatctgtta ccgacaagat tttctctaata acaacgacaa 60
tctctgaata cctcatctct gaagacctac cagatgttga ttttctgtt gtcggtgtca 120
ccagcttcag tggaccogaa gccctttga tgtggatgtt tttgactcta gtgtagatta 180
cataaagtta atgaagacaa tttttgactt cgaagcaata aaaaagctgc tgacctcccc 240
aaag 244

<210> 1332

<211> 266

<212> DNA

<213> Zea mays

<400> 1332

ccatcctctc gtgctatccc tgcctccccc cgctataata tcgcgcctc gtcgccatcg 60
tcaccacacc accactccct cactgcctc tcaactccga tcctgcacc actaccgct 120
cctccgctc acccctctcg tcgcctcttg cggcgaccgg cggcggatcg tccgcggcgc 180
aacgcaacca tggggctctt caccgtgacg aagaaggcca ccacccctt cgaaggccag 240
aagcccggta cctccggcct ccgcaa 266

<210> 1333

<211> 221

<212> DNA

<213> Zea mays

<400> 1333

ggagtaagac gtgtttgggt tggacaaaac agtctcatgt ctactcctgc tgtatctgct 60
gtcatccgtg aaagagttgg tgcagatgga tcaaaggcta ctggtgcctt catcttgaca 120
gcgagccata acccaggtgg tcctaaggag gacttcggga tcaaatacaa catgggaaat 180
ggtgggcctg ctctgaatc tgttaccgac aagattttct c 221

<210> 1334

<211> 230

<212> DNA

<213> Zea mays

<400> 1334

ctgccctctc actcccgatc cctgcaccac taccgcctcc tccgcttcac ccctctcgtc 60
gcctcttgcg gcgaccggcg gcggatcgtc cgcggcgcaa gcacaaccat ggggctcttc 120
accgtgacga agaaggccac caccctcttc gaaggccaga agcccggtag ctccggcctc 180
cgcaagaagg ttactgtatt ccagcagcct cattatctgc agaactttgt 230

<210> 1335
<211> 271
<212> DNA
<213> Zea mays

<400> 1335

ctgcaccact accgcctcct ccgcgtcacc cctctcgtcg catcttgcgg cgaccggcgg 60
cggatcgctc gatgcgcacg cgtaacactg gggctcttca ccgtgacgaa gaaggccacc 120
acccctctcg aaggccagaa gcccggtacc tccggcctac gcaagaaggt tactgtattc 180
cagcagcctc attatctgca gaacttggtc cagtcaacat tcaactgcct tcctgcagac 240
caagtaaaag gtgcaccatt gttgtctctg g 271

<210> 1336
<211> 238
<212> DNA
<213> Zea mays

<400> 1336

cctccgcgtc acccctctcg tcgcctcttg cggcgaccgg cggcggatcg tccgcggcgc 60
aacgcgacca tggggctctt caccgttccg aagaaggcca ccatcccctt cgaaggccag 120
aagcccggta cctccggcct ccgcaagaag gttactgtat tccagcagcc tcattagctg 180
cagagctttg tcgagtcaac attcaatgtc cttcctgcag accaagtaaa atgtgcac 238

<210> 1337
<211> 163
<212> DNA
<213> Zea mays

<400> 1337

ctctcactcc cgatccctgc accactaccg cctcctccga gtcaccctc tcgtcgctc 60
ttgcggcgac cggcggcgga tcgtccgcag cgcaacgcaa ccatggggct cttcaccgtg 120

acgaagaagg ccaccacccc cttcgaaggc cagaagcccc gta 163

<210> 1338
<211> 224
<212> DNA
<213> Zea mays

<400> 1338

gaatggtggg ctgctcctga atctgttacc gacaagattt tctctaatac aacgacaatc 60

tctgaatacc tcattctctga agacctacca gatgttgata tttctgttgt cgggtgcacc 120

agcttcagtg agaccgaagg ccctttgatg tggatgtttt gactcaagtg tagattacat 180

aagtaatgaa gcaattttga ctcgaagcat aaaaaactgt gact 224

<210> 1339
<211> 192
<212> DNA
<213> Zea mays

<400> 1339

ctgcccctctc actcccgatc cctgcaccac taccgcctcc tccgcttcac ccctctcgtc 60

gcctcttgct gcgaccggcg gcggatcgtc cgcagcgcaa gcgcaaccat ggggctcttc 120

accgtgacga agaaggccac caccctcttc gaaggccaga agcccggtag ctccggcctc 180

cgcaagaagg tt 192

<210> 1340
<211> 141
<212> DNA
<213> Zea mays

<400> 1340

gcctccctgc cctctcactc ccgatccctc ctccaccgcc gcttctctcg cgtcaccctc 60

ctcgtagtcg cctcacgagg cgaccagcgg cggaccctcc gcggcgcaac catggggctc 120

ttcactgtga cgaagaaggc c 141

<210> 1341
<211> 255
<212> DNA
<213> Zea mays

<400> 1341

gcgagatcaa tgccaaccag tgggtgctctt gatcgtgttg ccgagaaatt gaatgttcca 60

ttctttgagg ttccaacagg ctggaaattt tttggcaacc taatggatgc aggaaaattg 120

tctatttggtg gagaggaaag ttttgggact ggatctgatc acatcagaga gaaggatggc 180

atctgggctg ttctggcttg gctttccata cttgcacacc ggaacaagga taagaaggtc 240

ggagagagat tagtg 255

<210> 1342

<211> 273

<212> DNA

<213> Zea mays

<220>

<221> unsure

<222> (1)..(273)

<223> unsure at all n locations

<400> 1342

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tacctgcac cattaggttg ccaaaaaatt gtctatttggt ggagaggaaa gttttgggac 120

tggatctgat cacatcagag agaaggatgg catctgggct gttctggctt ggctttccat 180

acttgcacac cggaacaagg ataagaaggc cggagagaga ttagtgtcan ttgaggatat 240

tgctatggag cactggaaan cctatggcng gat 273

<210> 1343

<211> 268

<212> DNA

<213> Zea mays

<400> 1343

ctcatctctg aagaccttcc agatgttgat atttctgttg tcggtgtcac cagcttcagt 60

ggacccgaag gccctttga tgtggatgtc tttgactcta gtgtaaatta cataaagtta 120

atgaagacaa tttttgactt cgaagcaata aaaaagctac tgacctcccc aaagtttaca 180

ttctgttatg atgcgctcca tgggtgttgct ggagcttatg ccaaacacat ctttgtggaa 240

gagcttggtg ctgatgaaag ctcactgt 268

<210> 1344
 <211> 236
 <212> DNA
 <213> Zea mays

<400> 1344

catctctgaa gacctaccag atgttgatat ttctgttgct ggtgtcacca gcttcagtgg 60
 acccgaagcc cctttgatgt ggatgttttt gactctagt tagattacat aaagttaatg 120
 aagacaattt ttgacttcga agcaataaaa aagctgctga cctccccaaa gtttacattc 180
 tgttatgatg cactccatgg tgttgcgga cttatgccat acacatcttt gtggaa 236

<210> 1345
 <211> 433
 <212> DNA
 <213> Zea mays

<400> 1345

cccacgcgtc cgctgatacc gtactaccgt ctacaggatc agtatagctg aaggcatgag 60
 caaattggag ggtgtagacg gtagtacggt atcaaaacaa ggacttcgat ttgttttcac 120
 tgatggatct aggattatct tccggctttc gggaaccgga tctgctggag ctactatccg 180
 cctctacata gaacaatttg aatctgatat ctgaagcat agtctcgatg ctcaaacagc 240
 tttgaagcct ttaatagacc tggctttgtc tgtttcgaag ctcaaggact tcacaggaag 300
 agagaaacct actgtcataa cataggccct gtttgtttcg gcttttggca gcttctggcc 360
 accaaaagct actgcgtact gtcaaacgct cagcttttca gccagcttct ataaaattcg 420
 gttggggcaa aaa 433

<210> 1346
 <211> 408
 <212> DNA
 <213> Zea mays

<400> 1346

gtacgtgcgt gactacagtt gcatgctatg gccatggcca cgacttcgcc ggcaactggg 60
 cagccatcat catacaagca cagagccgc ggcgcggcgc ggtgctgccc tcctcctctg 120
 ctgtcctgga agacacgaag ctttgggcag caggtgacga caagggccac ggcggcgagc 180

tcccgtgggc agcccgccgg cgtggcactg gcagggggag aagagggcga cagtatcagg 240
 cggctgcaga acgggtcgga cgtgcggggc gtcgcgctgg agggcgagaa aggccggggc 300
 gtggacctca cgccgctggc ggtcgaggcc atcgccgaga gcttcgggga gtggctgcga 360
 gaggaggagc tccggctccg gggccaggag cccgagcagc tgcgtgtg 408

<210> 1347
 <211> 431
 <212> DNA
 <213> Zea mays

<400> 1347

cccacgcgtc cggcttggtg ctgatgaaag ctactgttg aattgtgtcc cgaaagagga 60
 ctttgagggt ggtcatccgg atcctaacct tacctatgca aaagagttgg ttgaacgcat 120
 gggctcttga aagtcatact caaatgttga gcctcctgaa tttggtgctg cagctgatgg 180
 agatgctgac cgcaacatga ttcttggtaa aagattcttt gtgacaccgt cggactctgt 240
 tgccattatc gcagccaatg ctgttcaatc aattccttac tttgcttctg gcctgaaagg 300
 agttgccagg agcatgccaa catctgctgc ccttgatggt gttgcaaaga atttgaacct 360
 taagttcttt gaggtgccta ctggaatgaa gttttttggg aatttgatgg atgctggaat 420
 gtgctcaatc t 431

<210> 1348
 <211> 418
 <212> DNA
 <213> Zea mays

<400> 1348

gtccgtcagc actgggccac atatggtcgc cactactaca cacgctatga ctatgagaat 60
 gttgatgcag gggctgctaa ggagcttatg gcaaacctag taagcatgca gtcactactt 120
 tctgatgtta acaagttggt caaggagatc cggctctgatg tttctgaagt agttgcagct 180
 gacgagtttg agtacaagga tcctgttgat ggctctgtgt ccaagcacca gggcatccga 240
 tacctctttg gagatggttc acgactgggtg ttccgcctct ctggaaccgg ttctgttggt 300
 gccaccatcc gtgtctacat cgagcagtac gagagggact cctctaagac cggcagggat 360
 tcacaggacg cccttgcttc gctggttgat gttgcgctca agctcttcaa gatgcaag 418

<210> 1349
 <211> 359
 <212> DNA
 <213> Zea mays

<400> 1349

ggcctgaagg gagttgccag gagcatgcct tcctctgctg cccttgatgt tgttgcaaag 60
 aatttgaacc ttaagttctt tgagggtgcct actggatgga agtttttttg gaatttgatg 120
 gatgctggaa tgtgctcaat ctgtggtgaa gaaagctttg gcactgggtc tgaccacatt 180
 cgtgagaagg atggcatctg ggctgtgctt gcatggcttt caattattgc tttcaagaat 240
 aaggacaacc ttggaggaga taagcttgtc acttgtgaag atattgtccg tcagcactgg 300
 gccacatatg gtcgccatta ctacacacgc tatgactatt aaaatgttga tgcacgggc 359

<210> 1350
 <211> 421
 <212> DNA
 <213> Zea mays

<400> 1350

ctgaatttgg tgctgcagct gatggagatg ctgaccgcaa catgattctt ggtaaaagat 60
 tctttgtgac accgtcggac tctgttgcca ttatcgcagc caatgctggt caatcaattc 120
 cttactttgc ttctggcctg aagggagttg ccaggagcat gccaacatct gctgcccttg 180
 atgttggtgc aaagaatttg aaccttaagt tctttgaggt gcctactgga tggaagtttt 240
 ttgggaattt gatggatgct ggaatgtgct caatctgtgg tgaagaaagc tttggcactg 300
 ggtctgacca cattcgtgag aaggatggca tctgggctgt gcttgcattg ctttcaatta 360
 ttgctttcaa gaataaggac aaacttggag gagataagct tgtcactggt gaagatattg 420
 t 421

<210> 1351
 <211> 377
 <212> DNA
 <213> Zea mays

<400> 1351

gggagttgcc aggagcatgc caacatctgc tgcccttgat gttgttgcaa agaatttgag 60

ccttgagttc tttgaggtgc ctactggatg gaagcttttt gggaattgga tggatgctgg 120
 aatgtgctca atctgtggtg aagaaagctt tggcactgtg gctgaccaca ttcgtgagaa 180
 ggatggcatt tgggctgagc ttgcatggct atcaattatt gctttcaaga gtttggacag 240
 ccttgtagga gataagcttg tcactgatga agatatgtgt cgctagcact ggtccacata 300
 tggtcgctat ttctacactc gctatgacta tgagaatttt tatgcacggg ctgctaata 360
 gcttattgct tacctag 377

<210> 1352
 <211> 343
 <212> DNA
 <213> Zea mays

<400> 1352

gactggtggt cgcctctct gggaccggt ctgttggtgc caccatccgt gtctacatcg 60
 agcagtacga gagggactcc tctaagaccg gcagggattc acaggacgcc cttgctccgc 120
 tggttgatgt tgcgctcaag ctctccaaga tgcaagagta cactggacgc tctgccccca 180
 ccgtcatcac ataaattttg aagtgtttta gaatgagttg aggcgcttac acaaactttc 240
 attccggcct cttgttccat agtttttctt gcatgttaca tctcaccgat gaataaaatg 300
 tatgtatcag acttgtctcg ttaaaaaaaaa aaagaaataa aaa 343

<210> 1353
 <211> 293
 <212> DNA
 <213> Zea mays

<400> 1353

gccaaacaca tctttgtgga agagcttggt gctgatgaaa gctcactggt gaattgtgtc 60
 ccgaaagagg actttggagg tggatcatcc gatcctaacc ttacctatgc aaaagagttg 120
 gttgaacgca tgggtcttgg aaagtcattc tcaaattgtg agcctcctga atttgggtgct 180
 gcagctgatg gagatgctga ccgcaacatg attcttggtg aaagattctt tgtgacaccg 240
 tcggactctg ttgccattat cgtaaccaat ggctgtcaat caattcctta ctt 293

<210> 1354
 <211> 464
 <212> DNA

<213> Zea mays
 <220>
 <221> unsure
 <222> (1)..(464)
 <223> unsure at all n locations
 <400> 1354
 aggatggagg caatggggag gaggagagaa atgtaaactc naanccgggg gggagcacgc 60
 gttccgggca aaacatattt ttgggaaaaa cctttttctg atttaagggtt acaggtagaa 120
 tgggggtcccg aaggaggcct ttgaagggtg caatccgatt cctaacctaa ctattccaaa 180
 aaagttggtg gacccttgg tcttgaaaaa gcaatcctaa atggtgagcc ctctggattt 240
 tgtgctgcag cttatggaga tgctgaccgc aacatgattc ttggtaaaag attctttgtg 300
 acaccgtcgg actctgttgc cattatcgca gccaatgctg ttcaatcaat tccttacttt 360
 gcttctggcc tgaagggagt tgccaggagc atgccaacat ctgctgccct tgatgttgtt 420
 gcaaagaatt tgaaccttaa gttctttgag gtgcctactg gatg 464

<210> 1355
 <211> 136
 <212> DNA
 <213> Zea mays
 <400> 1355
 gatccggtct gatgtttctg aagtagttgt tgctgacgag tttgagtaca aggatgctgt 60
 ggatggctct gtgtccaagc accagggcat ccgatacctc tttggagatg gttcacgact 120
 ggtgttccgc ctctct 136

<210> 1356
 <211> 280
 <212> DNA
 <213> Zea mays
 <400> 1356
 atgagttgag gcgcttacac aaactttcat tccggcctct tgttccatag tttttcttgc 60
 atgttacatc tcaccgatga ataaaatgta tgtatcagac ttgtctcgtt tttttgccca 120
 tccaagcagc aaattagccg ctggcacagc atgcggtaat aatcttgtca cagtgtgtga 180
 attgggagcg tttttcttgt tagaagtgtt tctggtttgt ttgagcattt acggatcgat 240

ttttctttct gaagagtata taaacatttt actcacctgt 280

<210> 1357
<211> 221
<212> DNA
<213> Zea mays

<400> 1357

gagttgaggc gcttacacaa actttcatte cggcctcttg ttccatagtt tttcttgcatt 60
gttacgtctc accgatgaat aaaatgtatg tatcagactt gtctcgtttt ttgcccattc 120
caagcagcaa attagccgct ggcacagcat gcggaataa tcttgtcaca gtgctgtagt 180
tgaggagcgtt tttcttggtta gaagtgtttc tggtttggtt g 221

<210> 1358
<211> 350
<212> DNA
<213> Zea mays

<400> 1358

actcacaccc gatccctctt ccaccaccgg ctctctccgc gtcacccctc ctggtccgtc 60
gcctcacaag gcgaccagcg ggcggaccct ccgcggcgca accatggggc tcttcactgt 120
gacgaagaag gccaccacgc ccttcgacgg ccagaagccc ggcacctccg gcctccgcaa 180
gaaggttact gtattccagc agccccatta tctgcagaac tttgtccaat caacattcaa 240
tgcccttcct gtggatcaag taagaggtgc aacaattgtt gtctctgggtg atggccgcta 300
tttctcaaaa gatgctgttc agatcatcac aaaaatggct gctgccaatg 350

<210> 1359
<211> 409
<212> DNA
<213> Zea mays

<400> 1359

agccatcgcg tccgactcct tccctgccct ctcaactcaa atccctcctc caccaccgct 60
tcctccgctg caccctctc gtcgtcgct cagcaggcga ccagcggcgg accctcgggg 120
gcgcaaccat ggggctcttc actgtgacgg ggaaggccac cagcccttc gacggccaga 180
agcccgccac ctccggcctc cgcaagaagg ttactgtatt ccagcatccc cattatctgc 240

agaactttgt ccaatcaaca ttcaatgccc ttctgtgga tcaagtaaga ggtgcaacaa 300
 ttgttgcttc tggatgatttt ttctatttct caaaagatgc tgttcagatc ataacaaaaa 360
 tggctgctgc caatggagta acacgtgttt gggttggaca aaacaatct 409

<210> 1360
 <211> 396
 <212> DNA
 <213> Zea mays

<220>
 <221> unsure
 <222> (1)..(396)
 <223> unsure at all n locations

<400> 1360

cccacgcgtc cgcccacgcg tccgggaaat cactccagaa ttttgaaaag gtgacggaaa 60
 tagtgaggag cggagaacac cggaatgac catcctctcg tgctatccct gccctcccc 120
 gctataatat cgcgccctcg tcgccatcgt caccacacca ccactccctc actgcctct 180
 cactcccgat cctgcacca ctaccgcctc ctccgcgtca cccctctcgt cgctctctgc 240
 ggcgaccggc ggcggatcgt ccgctgcgca agcgcaacca tggggctctt caccgtgacg 300
 aagaaggcca tcacccctt cgaaagccag aagcccggtc cctnctgcct ncgcaagaag 360
 gttactgtat tccagcagcc tcattatctg cagaac 396

<210> 1361
 <211> 138
 <212> DNA
 <213> Zea mays

<400> 1361

caacactaac aacttggtgg tgaaccttaa agctgtcaag agactagtag agctgagcac 60
 ttaagatgga attatcaacc cagaagtgat gggaaatctca cttgactgat ggacattcgt 120
 cttcaacgtg atagtccg 138

<210> 1362
 <211> 264
 <212> DNA
 <213> Zea mays

<400> 1362

cgttcaagaa ggttgggagc ttccttggtc gtttcaagtc catacctagc attggttgagc 60

ttgacatctt gaagggttcc ggtgatgttt ggttcgggtc tggaattgta ctgaagggga 120

aagtgaccat cactgcaaaa cctggcggtc agctagaaat cccagacgga gcagtgattg 180

ggaataagga taattttgga aaaggaaaga gaaaacaata ccagatgcct tacaacctga 240

attagggatg aaactgctaa ttgc 264

<210> 1363

<211> 295

<212> DNA

<213> Zea mays

<400> 1363

gtcttagggtt attatagaag ttaaaatgtt attccaatga ggcaatgact actcacaatg 60

gaatatcacc ttgcttggtg gattatttac ggtgaagact ttagatata gtttgaactg 120

tacctcattt atagcgtatt tacataaatg tgatacccat ctgattgttg tgatttttga 180

tgtgtaaggt atcctcctgg tcatggtgat gtgtttcctt ctttgaataa cagcggaaaa 240

cttgacatct tattggctca gggcaaggag tatgtctttg ttgcaaactc agaca 295

<210> 1364

<211> 275

<212> DNA

<213> Zea mays

<400> 1364

agtcaaacct ctatagtctt aatgcaggat ctcgacaat gaggacaag cgggaatttc 60

ctacagtgcc cttggttaaa ttaggcagtt cttttacgaa ggttcaagat tatctacgaa 120

gatttgaaag tataccagat atgcttgaat tggatcacct cacagtctca ggagatgtga 180

catttggaag aaatgtttca ttacaggga cggttatcat cattgcatat catggtgaca 240

cttttgatat cctcctgga gcagtattag agcac 275

<210> 1365

<211> 283

<212> DNA

<213> Zea mays

<400> 1365

gtggagtgaa accctagggtt taccgtggaa gaagaaagtc cattcggcgc gctctagggtg 60

tttggcaaaa agcttaaacc ggaaatcgtc atcgccctta cacatatcga tttggtttat 120

gacatgtctg atctatatac cttggttgat ggcttcgtta cacgtaattc agctaggact 180

ttagggcaaa gtgatcatca ctgcaaaacc tggcgtcaag ctagaaatcc cagacggagc 240

agtgattggg aataagattc caagttcaca cagcaggagt tgc 283

<210> 1366

<211> 234

<212> DNA

<213> Zea mays

<400> 1366

gacaaatcca tcaaaccct caattgaact tagtcctgag ttcaagaagg ttgcggagct 60

tccttggtcg cttcaagtcg atacctagca ttcactgaca gcttgaagggt ttccggtgat 120

gtttggttcg gttctggact tgtattgaag gggacagtga ccatcactgc aaaacctggc 180

gtcaagctag aaatcccaga cggagcagtg attgggaata cggatatcag tggc 234

<210> 1367

<211> 212

<212> DNA

<213> Zea mays

<400> 1367

ctccaacatt gcaattcata ctttcaatca gagccagtat cctcgcattg ttaccgagga 60

cttcttgcca cttccaagca aaggacatc ttggaaggat ggctggtatc ctccaggcca 120

tggatgatgtg ttcccctctt tgaataacag tggaaaactc gacatcttat tggctcaggg 180

caaggagtat gtcttcgttg ctaactagac aa 212

<210> 1368

<211> 274

<212> DNA

<213> Zea mays

<400> 1368

cccggcgtca gacgcgcac ttccagcaat ggcggacgag aagctgccaa ctgcgcgaag 60

caccgccggc ctcacgcaga tcagcgataa cgagaagtcc ggcttcctca gcctcgtcgg 120
ccgctacctc agcggcgacg aggagcacat cgagtgggcc aagatccaca cgcccaccga 180
cgaggtggtg gtgccgtacg acaccctgga gtccccgcca gaaggcactg aggcgaccaa 240
gaagctgctc gacaagctcg ccgtgctcaa gctc 274

<210> 1369
<211> 248
<212> DNA
<213> Zea mays

<400> 1369

ctctcccaga tccgtctccc ggcgtcagac gcgcattctc cagcaatggc ggacgagaag 60
cttgccaagc tgcgcgaacc accgccggcc tcacgcagat cagcgagaac gagaagtccg 120
gcttcctcag cctcgtcggc cgatacctca gtggcgacga ggagcacatc gagtgggcca 180
agatccacac gccaccgac gaggtggtgg tgccgtacga caccctggag tccccgccag 240
aaggcact 248

<210> 1370
<211> 186
<212> DNA
<213> Zea mays

<400> 1370

ctcccggcgt cagacgcgca tctccagcaa tggcggacga gaaacttgcc aagctgcgcg 60
aaccaccgcc ggctcacgc agatcagcga gaacgagaag tccggcttcc tcagcctcgt 120
cggccgctac ctcagcggcg acgaggagca catcgagtgg gccaagatcc acacgcccac 180
cgacga 186

<210> 1371
<211> 323
<212> DNA
<213> Zea mays

<400> 1371

cagttaaagc gacatcagat ttgcagctag tacagtctga tctatatacc ttggttgatg 60
gcttcgttac acgtaattca gccagaacaa atccatcaaa tccctcaatt gaacttagtc 120

ctgagttcaa gaaggttggg agcttccttg gtcgcttcaa gtcgatacct agcattgttg 180
agcttgacag cttgaagggt tccggtgatg tttggttcgg ttctggaatt gtattgaagg 240
ggaaagtgac catcactgca aaacctggcg tcaagctaga aatcccagac ggagcagtga 300
ttgggaataa ggatatcagt ggc 323

<210> 1372
<211> 328
<212> DNA
<213> Zea mays

<400> 1372

cggacgcgtg gctgacgcgt gggcggacgc gtgggatgcc attggtatca acgttccaag 60
gtcccgctat cctaccagtt aaggcgacat cagcatttgc agctagtaca gtctgatcta 120
tataccttgg ttgatggctt cggtacacgt aattcagcca gaacaaatcc atcaaatacca 180
tcaattgaac ttggtcctga gttcaagaag gttgggagct tccttggtcg cttcaagtcg 240
atacctagca ttgttgagct tgacagcttg aagggttccg gtgatgtttg gttcggttct 300
ggaatgtact gaacgggaaa gtgacat 328

<210> 1373
<211> 301
<212> DNA
<213> Zea mays

<400> 1373

ggaccagttc tttgaccatg ccattggtat caacgttcca aggtcccgtt tcctaccagt 60
taaggcgaca tcagatttgc agctagtaca gtctgatcta tataccttgg ttgatggctt 120
cggtacacgt aattcagcca gaacaaatcc atcaaataccc tcaattgaac ttggtcctga 180
gttcaagaag gttgggagct tccttggtcg cttcaagtcc atacctagca ttgttgagct 240
tgacatcttg aagggttccg gtgatgtttg gttcggttct ggaattgtac tgaaggggaa 300
a 301

<210> 1374
<211> 349
<212> DNA
<213> Zea mays

<400> 1374

agagccagta tcctcgcatt gttaccgagg acttcttgcc acttccaagc aaagggaaat 60

ctggttaagga tggctggtat cctccaggcc atggtgatgt gttcccctct ttgaataaca 120

gtggaaaact cgacatctta ttggctcaag gcaaggagta tgtcttcatt gctaactcag 180

acaacttggg tgctatagtc gacatcaaga tcctgaacca tctgatcaat aaccagaatg 240

aatactgcat ggaggttact ccaaaaacat tggctgatgt taaaggcggt actctcatct 300

cttacgaagg aagagttcag cttttggaga ttgcccaagt acctgatga 349

<210> 1375

<211> 357

<212> DNA

<213> Zea mays

<400> 1375

agttgatggt gtgaaagtcc ttcaactcga aaccgcagct ggtgcagcta ttcggttctt 60

cgacaaagcg attggaatta atgttccccg ctcaagggtt ctcccagtga aggctacatc 120

tgatctgttg cttgtgcagt ctgatcttta caccttggtt gatggctttg tcatccgcaa 180

cccatccaga gcgaatccag ctaacccttc aattgagctt ggacctgagt tcaagaaggt 240

tgccaatttc cttgctcggt tcaagtccat ccccagcata gttgagcttg acagcttgaa 300

ggtttctggt gatgtctggt ttggctctgg aattacactc aagggaagg tgacaat 357

<210> 1376

<211> 314

<212> DNA

<213> Zea mays

<400> 1376

gcgagaacga gaagtccggg ttcacagcc tcgtgtcacg gtacctcagt ggggacgctg 60

acagatcgag tggagcaaga tccagacccc tacggatgag gtggtggtgc cctacgatac 120

cgtcgcgtcg cctcccgaag atctcgagga gacgaagaag ctgctggata agctcgttgt 180

gctcaagctt aacggagggc tcgggacgac catgggctgc actgggcca agtctgtcat 240

tgaagtccgc aatgggttca cattccttga ccttattgtg attcaaattg agtccttgaa 300

caagaagtat ggat 314

<210> 1377
 <211> 309
 <212> DNA
 <213> Zea mays

<400> 1377

ctacgatacc gtcgcgtcgc ctcccgaaga tctcgaggag acgaagaagc tgctggataa 60
 gctcgttggtg ctcaagctta acggagggct cgggacgacc atgggctgca ctgggcccac 120
 gtctgtcatt gaagtccgca atgggttcac attccttgac cttattgtga ttcaaattga 180
 gtccctgaac aagaagtatg gatgcaatgt ccctttactt ctgatgaact ctttcaacac 240
 ccatgatgac acacagaaga ttgttgagaa gtattccaac tccaacatcg aaattcatac 300
 tttcaatca 309

<210> 1378
 <211> 302
 <212> DNA
 <213> Zea mays

<400> 1378

gttgagaagt attccaactc caacattgaa attcatactt tcaatcagag ccagtatcct 60
 cgcattgtta ccgaggactt cttgccactt ccaagcaaag ggaaatctgg gaaggatggc 120
 tgggtatcctc caggccatgg tgatgtgttc ccctctttga ataacagtgg aaaactcgac 180
 atcttattgg ctcagggcaa ggagtatgtc ttcgttgcta actcagacaa cttgggtgct 240
 atagtcgaca tcaagatcct gaaccatctg atcaataacc agaatgaata ctgcatggag 300
 gt 302

<210> 1379
 <211> 319
 <212> DNA
 <213> Zea mays

<400> 1379

ccacgcgtcc gggagcagat cgagtggagc aagatccaga ccctacgga tgaggtggtg 60
 gtgccctacg ataccgtcgc gtcgcctccc gaagatctcg aggagacgaa gaagctgctg 120
 gataagctcg ttgtgctcaa gcttaacgga gggctcggga cgaccatggg ctgcactggg 180

cccaagtctg tcattgaagt ccgcaatggg ttcacattcc ttgaccttat tgtgattcaa 240
 attgagtccc tgaacaagaa gtatggatgc aatgtccctt tacttctgat gaactctttc 300
 aacacccatg atgacacac 319

<210> 1380
 <211> 322
 <212> DNA
 <213> Zea mays

<400> 1380

cccacgcgtc cgatcttatt ggctcagggc aaagagtatg tctttgttgc aaactcagac 60
 aacttgggtg ctatagtcga catcaagatc ctaaaccatc tgatcaataa ccagaacgag 120
 tactgcatgg aggttactcc aaagacgctg gctgacgtta aggggtggcac tctcatctct 180
 tacgaaggaa gagttcagct tttggagatt gccaagtac ccgatgagca tgtgaatgaa 240
 tttaaataca tcgagaagtt taagatatcc aacactaaca acttgtgggt gaaccttaaa 300
 gctatcaaga gactcgtaga gg 322

<210> 1381
 <211> 328
 <212> DNA
 <213> Zea mays

<400> 1381

ggttaagata ttcaacacta acaacttgtg ggtgaacctt aaagctgtca agagactagt 60
 agaggctgag gcacttaaga tggaaattat tccaaacccc aaggaagttg atgggtgtgaa 120
 agtccttcaa tttgaaactg cagctgggtg agctattcgt ttctttgaca aagcgattgg 180
 aattaatggt ccccgctcaa gatttctccc agtgaaggct acatctgatt tattgcttgt 240
 gcagtctgat ctttacacct tggtcgatgg ctttgtcatc cgcaacccat ccagaacgaa 300
 tccagetaat ccttcgattg agcttgga 328

<210> 1382
 <211> 286
 <212> DNA
 <213> Zea mays

<400> 1382

aattaatgtt ccccgctcaa ggtttctccc agtgaaggct acatctgata tgttgcttgt 60
gcagtctgat ctttacacct tggttgatgg ctttgtcatc cgcaacccat ccagagcgaa 120
tccagctaac ccttcaattg agcttggacc tgagttcaag aagggtgcca atttccttgc 180
tcggttcaag tccatcccca gcatagttga gcttgacagc ttgaaggttt ctggtgatgt 240
ctggtttggc tctggaatta cactcaaggg caagggtgaca attatc 286

<210> 1383
<211> 302
<212> DNA
<213> Zea mays
<400> 1383

caagagactc gtagagctga ggcacttaag atggaaatta ttccaaaccc caaggaagtt 60
gatggtgtga aagtccttca actcgaaacc gcagctgggtg cagctattcg gttcttcgac 120
aaagcgattg gaattaatgt tccccgctca aggtttctcc cagtgaaggc tacatctgat 180
ctggtgcttg tgcagtctga tctttacacc ttggttgatg gctttgtcat ccgcaaccca 240
tccagagcga atccagctaa cccttcaatt gagcttggac ctgagttcaa gaagggtgcc 300
aa 302

<210> 1384
<211> 305
<212> DNA
<213> Zea mays
<400> 1384

gcactctcat ctcttacgaa ggaagagttc agcttttgga gattgcccaa gtacccgatg 60
agcatgtgaa tgaatttaaa tcaatcgaga agtttaagat attcaacact aacaacttgt 120
gggtgaacct taaagctatc aagagactcg tagaggctga ggcacttaag atggaaatta 180
ttccaaaccc caaggaagtt gatggtgtga aagtccttca actcgaaacc gcagctgggtg 240
cagctattcg gttcttcgac aaagcgattg gaattaatgt tccccgctca aggtttctcc 300
cagtg 305

<210> 1385
<211> 321
<212> DNA

<213> Zea mays
 <400> 1385

cggacgcgtg gggacgagaa gctcgataag cttcgcgccg aggtcgccaa gctcgaccag 60
 atcagcgaga acgagaagtc cgggttcata agcctcgtgt cacggtacct cagtcgggag 120
 gcggacagat cgagtggagc aagatccaga cccctacgga tgaggtggtg gtgccctacg 180
 ataccgtcgc gtcgcctccc gaagatctcg aggagacgaa gaagctgctg gataagctcg 240
 ttgtgctcaa gcttaacgga gggctcggga cgaccatggg ctgcactggg cccaagtctg 300
 tcattgaagt ccgcaatggg t 321

<210> 1386
 <211> 307
 <212> DNA
 <213> Zea mays
 <400> 1386

ctcgagccgc tctgcagtcc ctgaacaaga agtatggatg caatgtccct ttactttctga 60
 tgaactcttt caacacccat gatgacacac agaagattgt tgagaagtat tccaactcca 120
 acatcgaaat tcatactttc aatcagagcc agtatcctcg cattgttacc gaggacttct 180
 tgccacttcc cagcaaaggg aaatctggga aggatggctg gtatcctcct ggtcatgggtg 240
 atgtgtttcc ttctttgaat aacagcggaa aacgtgacat cttattgggt cagggcaagg 300
 agtatgt 307

<210> 1387
 <211> 276
 <212> DNA
 <213> Zea mays
 <400> 1387

cggagggctc gggacgacca tgggctgcac tgggcccag tctgtcattg aagtccgcaa 60
 tgggtacaca ttccttgacc ttattgtgat tcaaattgag tcctgaaca agaagtatgg 120
 atgcaatgtc cctttacttc tgatgaactc tttcaacacc catgatgaca cacagaagat 180
 tgttgagaag tattccaact ccaacatcga aattcatact ttcatttcag agccagtatc 240
 ctgcattgt taccgaggac ttcttgccac ttccca 276

<210> 1388
 <211> 298
 <212> DNA
 <213> Zea mays
 <400> 1388
 tgtcccttta cttctgatga actctttcaa caccatgat gacacacaga agattgttga 60
 gaagtattcc aactccaaca tcgaaattca tactttcaat cagagccagt atcctcgcat 120
 tgttaccgag gacttcttgc cacttcccag caaagggaaa tctgggaagg atggctggta 180
 tcctcctggt catggtgatg tgtttccttc tttgaataac agcggaaaac ttgacatctt 240
 attggctcag ggcaaggagt atgtctttgt tgcaaactca gacaacttgg gtgctata 298

<210> 1389
 <211> 287
 <212> DNA
 <213> Zea mays
 <400> 1389
 attgttgaga agtattccaa ctccaacatc gaaattcata ctttcaatca gagccagtat 60
 cctcgcatcg ttaccgagga cttcttgcca cttcccagca aagggaaatc tgggaaggat 120
 ggctgggtatc ctctcgtgca tggatgatgtg tttccttctt tgaataacag cggaaaactt 180
 gacatcttat tggctcaggg caaggagtat gtctttgttg caaactcaga caacttgggt 240
 gctatagtcg acatcaagat cctaaaccat ctgatcaata accagaa 287

<210> 1390
 <211> 291
 <212> DNA
 <213> Zea mays
 <400> 1390
 ggaggttact ccaaaaacat tggctgatgt taaaggcggc actctcatct cttacgaagg 60
 aagagttcag cttttggaga ttgcccaagt acctgatgag catgtgaatg agtttaaact 120
 aatcgagaag tttaagatat tcaacactaa caacttgttg gtgaacctta aagctgtcaa 180
 gagactagta gaggctgagg cacttaagat ggaaattatt ccaaacccca aggaagttga 240
 tgggtgtgaaa gtccttcaac ttgaaactgc agctgggtgca gctattcggt t 291

<210> 1391
 <211> 271
 <212> DNA
 <213> Zea mays

 <400> 1391

 gcttaacgga gggctcggga cgaccatggg ctgcactggg cccaagtctg tcattgaagt 60
 ccgcaatggg ttcacattcc ttgaccttat tgtgattcaa attgagtccc tgaacaagaa 120
 gtatggatgc aatgtccctt tactttctgat gaactctttc aacacccatg atgacacaca 180
 gaagattggt gagaagtatt ccaactccaa catcgaaatt catactttca atcagagcca 240
 gtatcctcgc attgtaaccg aggacttctt g 271

<210> 1392
 <211> 340
 <212> DNA
 <213> Zea mays

 <400> 1392

 tgggttcaca ttccttgacc ttattgtgat tcaaattgag tccctgaaaa agaagtatgg 60
 atgcaatgtc gctttacttc tgatggacta tttcaacacc catgatgaca cacagaagat 120
 tgttgagaag tattccaact ccaacatcga aattcatact ttcaatcaga gccagtatcc 180
 tcgcattggt accgaggact tcttgccact tcccagcaaa gggaaatctg ggaaggatgg 240
 ctggtatcct cctggtcatg gtgatgtggt tccctctggt gaataacagc ggaaaacttg 300
 acatcttatt ggctcagggc aaagagtatg tctttgttga 340

<210> 1393
 <211> 257
 <212> DNA
 <213> Zea mays

 <400> 1393

 agctcgttgt gctcaagctt aacggagggc tcgggacgac catgggctgc actgggccca 60
 agtctgtcat tgaagtccgc aatggggttca cattccttga ccttattgtg attcaaattg 120
 agtccttgaa caagaagtat ggatgcaatg tccctttact tctgatgaac tctttcaaca 180
 cccatgatga cacacagaag attggttgaga agtattccaa ctccaacatc gaaattcata 240

ctttcaatca gagccag

257

<210> 1394

<211> 269

<212> DNA

<213> Zea mays

<400> 1394

caaattgagt ccctgaacaa gaagtatgga tgcaatgtcc ccttacttct gatgaactct 60
ttcaacaccc atgatgacac acagaagatt gttgagaagt attccaactc caacatcgaa 120
attcatactt tcaatcagag ccagtatcct cgcattgtta ccgaggactt cttgccactt 180
cccagcaaag ggaaatctgg gaaggatggc tggatcctc ctggtcatgg tgatgtgttt 240
ccttctttga ataacagcgg aaaacttga 269

<210> 1395

<211> 264

<212> DNA

<213> Zea mays

<400> 1395

ctcgcattgt taccgaggac ttcttgccac ttccaagcaa agggaaatct gggaaggatg 60
gctggtatcc tccaggccat ggtgatgtgt tccctcttt gaataacagt ggaaaactcg 120
acatcttatt ggctcagggc aaggagtatg tcttcgttgc taactcagac aacttggttg 180
ctatagtcga catcaagatc ctgaaccatc tgatcaataa ccagaatgaa tactgcatgg 240
aggttactcc aaaaacattg gctg 264

<210> 1396

<211> 297

<212> DNA

<213> Zea mays

<400> 1396

ggacgcgggc ttgtgcagtc tgatctttac accttggttg atggctttga gtcocgcaac 60
ccatccagag cgaatccagc taacccttca attgagcttg gacctgagtt caagaaggtt 120
gccaatttcc ttgctcgggt caagtccatc cccagcatag ttgagcttga cagcttgaag 180
gtttctggtg atgtctggtt tggctctgga attacactca agggcaagggt gacaattatc 240

gccaaagcctg gagtgaagtt ggagattcca gatggagacg tacttgagaa caaggat 297

<210> 1397
<211> 281
<212> DNA
<213> Zea mays

<400> 1397

gaaagtcctt caactcgaaa ccgcagctgg tgcagctatt cggttcttcg acaaagcgat 60
tggaattaat gttccccgct caaggtttct cccagtgaag gctacatctg atctgttgct 120
tgtgcagtct gatctttaca ccttggttga tggctttgtc atccgcaacc catccagagc 180
gaatccagct aacccttcaa ttgagcttgg acctgagttc aagaaggttg ccaatttcct 240
tgctcggttc aagtccatcc ccagcatagt tgagcttgac a 281

<210> 1398
<211> 263
<212> DNA
<213> Zea mays

<400> 1398

ccagaatgaa tactgcatgg aggttactcc aaaaacattg gctgatgtta aaggcggtag 60
tctcatctct tacgaaggaa gagttcagct tttggagatt gcccaagtag ctgatgagca 120
tgtgaatgag tttaaataca tcgagaagtt taagatatcc aacactaaca acttgtgggt 180
gaaccttaaa gctgtcaaga gactagtaga ggctgaggca cttaagatgg aaattattcc 240
aaacccaag gaagttgatg gtg 263

<210> 1399
<211> 288
<212> DNA
<213> Zea mays

<400> 1399

cccacgcgtc cggccaagt acccgatgag catgtgaatg aatttaaata aatcgagaag 60
ttaagatat tcaacactaa caacttggtg gtgaacctta aagctatcaa gagactcgta 120
gaggctgagg cacttaagat ggaaattatt ccaaaccaca aggaagttga tgggtgtgaaa 180
gtccttcaac tcgaaaccgc agctgggtgca gctattcggg tcttcgacaa agcgattgga 240

attaatgttc cccgctcaag gtttctccca gtgaaggcta catctgat 288

<210> 1400
<211> 278
<212> DNA
<213> Zea mays

<400> 1400

cccacgcgtc cgcaagaagt atggatgcaa tgccccctta cttctgatga actctttcaa 60
caccatgat gacacacaga agattgttga gaagtattcc aactccaaca tcgaaattca 120
tactttcaat cagagccagt atcctcgcat tgttaccgag gacttcttgc cacttcccag 180
caaagggaaa tctgggaagg atggctggta tcctcctggc catggtgatg tgtttccctc 240
tttgaataac agcggaaaac ttgacatctt attggctc 278

<210> 1401
<211> 278
<212> DNA
<213> Zea mays

<400> 1401

gcgagaacga gaagtccggg ttcacagcc tcgtgtcacg ctacctcagt ggggaagcgg 60
acagatcgag tggagcaaga tccagacccc tacggatgag gtggtggtgc cctacgatac 120
cgtcgcgtcg cctcccgaag atctcgagga gacgagaagc tgctggataa gctcgttgtg 180
ctcaagctta acggagggct cgggacgacc atgggctgca ctgggcccga gtctgtcatt 240
gaagtccgca atgggttcac attccttgat cttattgt 278

<210> 1402
<211> 282
<212> DNA
<213> Zea mays

<400> 1402

atctttacac cttggttgat ggctttgtca tccgcaatcc atccagagcg aatccagcta 60
acccttcgat tgagcttga cctgagttca agaagggtgc caatttcctt gctcggttca 120
agtccatccc cagcatcgtc gagcttgaca gcttgaaggc ttctggtgat gtctggtttg 180
gttctggaat tacgctcaag ggcaagggtga caatcaccgc caagtctgga gtgaagttgg 240

aggttccaga tggagctgta tatgaaaaca aggatgtcaa tg 282

<210> 1403
 <211> 270
 <212> DNA
 <213> Zea mays

<400> 1403

gtccttcaac tcgaaaccgc agctggtgca gctattcggg tcttcgacaa agcgattgga 60
 attaatgttc cccgctcaag gtttctccca gtgaaggcta catctgatct gttgcttggtg 120
 cagtctgatc ttacacctt ggttgatggc tttgtcatcc gcaaccatc cagagcgaat 180
 ccagctaacc cttcaattga gcttggaact gagttcaaga aggttgccaa tttccttgct 240
 cggttcaagt ccatccccag catagttgag 270

<210> 1404
 <211> 270
 <212> DNA
 <213> Zea mays

<400> 1404

ggaggttact ccaaagacgc tggctgacgt taagggtggc actctcatct cttacgaagg 60
 aagagttcag cttttggaga ttgcccaagt acccgatgag catgtgaatg aatttaaattc 120
 aatcgagaag ttttaagatat tcaacactaa caacttgtgg gtgaacctta aagctatcaa 180
 gagactcgta gaggctgagg cacttaagat ggaaattatt ccaaacccca aggaagttga 240
 tgggtgtgaaa gtccttcaac tcgaaaccgc 270

<210> 1405
 <211> 263
 <212> DNA
 <213> Zea mays

<400> 1405

tgatgacaca cagaagattg ttgagaagta ttccaactcc aacatcgaaa ttcatacttt 60
 caatcagagc cagtatcttc gcattgttac cgaggacttc ttgccacttc ccagcaaagg 120
 gaaatctggg aaggatggct ggtatcctcc tggatcatgg gatgtgtttc cttctttgaa 180
 taacagcgga aaacttgaca tcttattggc tcagggaag gagtatgtct ttgttgcaaa 240

ctcagacaac ttgggtgcta tag 263

<210> 1406
 <211> 263
 <212> DNA
 <213> Zea mays

<400> 1406

gcaaggagta tgtctttggt gcaaactcag acaacttggg tgctatagtc gacatcaaga 60
 tcctaaacca tctgatcaat aaccagaacg agtactgcat ggagggttact ccaaagacgc 120
 tggctgacgt taagggtggc actctcatct cttacgaagg aagagttcag cttttggaga 180
 ttgcccgaagt acccgatgag catgtgaatg aatttaaadc aatcgagaag ttttaagatat 240
 tcaacactaa caacttgtgg gtg 263

<210> 1407
 <211> 273
 <212> DNA
 <213> Zea mays

<400> 1407

aagaagtatt ccaactccaa catcgaaatt cataactttca atcagagcca gtatcctcgc 60
 attgttaccg aggacttctt gccacttccc agcaaaggga aatctgggaa ggatggctgg 120
 tatectcctg gtcattgtga tgtgtttccc tctttgaata acagcggaaa acttgacatc 180
 ttattggctc agggcaaaga gtatgtcttt gttgcaaact cagacaactg ggggtgctata 240
 gtcgacatca agatcctaaa ccatctgac aat 273

<210> 1408
 <211> 271
 <212> DNA
 <213> Zea mays

<220>
 <221> unsure
 <222> (1)..(271)
 <223> unsure at all n locations

<400> 1408

ccgcaatggg ttcacattcc ttgaccttat tgtgattcaa attgagtcct tgaacaagaa 60
 gtaggatgca agtcctttac ttctgatgaa ctctttcaac acccatgatg acacacagaa 120

gattgttgag aagtattcca actccaacat cgaaattcat actttcaatc agagccagta 180
tctctgcatt gttaccgagg acttcttgcc acttcccagc aaagggaaat ctgnngagga 240
tggtctggtat cctcctgggtc atggtgatgt g 271

<210> 1409
<211> 227
<212> DNA
<213> Zea mays

<400> 1409

aagctatcaa gagactcgta gaggtctgagg cacttaagat ggaaattatt ccaaacccca 60
aggaagttga tgggtgtgaaa gtccttcaac tcgaaaccgc agctggtgca gctattcgggt 120
tcttcgacaa agcgattgga attaattgtc cccgctcaag gtttctccca gtgaaggcta 180
catctgatct gttgcttggtg cagtctgatc tttacacctt ggttgat 227

<210> 1410
<211> 273
<212> DNA
<213> Zea mays

<400> 1410

aaaggcggta ctctcatctc ttacgaagga agagttcagc ttttgagat tgcccaagta 60
cctgatgagc atgtgaatga gtttaaatac atcgagaagt ttaagatatt caacactaac 120
aacttggtggg tgaaccttaa agctgtcaag agactagtag aggctgaggc acttaagatg 180
gaaattattc caaaccctaa ggaagttgat ggtgtgaaaag tccttcaact tgaaactgca 240
gctggtgcag ctattcgttt ctttgacaaa gcg 273

<210> 1411
<211> 255
<212> DNA
<213> Zea mays

<400> 1411

gcggacagat cgagtggagc aagatccaga cccctacgga tgaggtggtg gtgccctacg 60
ataccgtcgc gtcgcctccc gaagatctcg aggagacgaa gaagctgctg gataagctcg 120
ttgtgctcaa gcttaacgga gggctcggga cgaccatggg ctgcactggg cccaagtctg 180

tcattgaagt ccgcaatggg ttcacattcc ttgaccttat tgtgattcaa attgagtccc 240
tgaacaagaa gtatg 255

<210> 1412
<211> 259
<212> DNA
<213> Zea mays

<400> 1412

agggcaagga gtatgtcttt gttgcaaact cagacaactt gggtgctata gtcgacatca 60
agatcctaaa ccatctgata aataaccaga acgagtactg catggagggt actccaaaga 120
cgctggctga cgtaagggt ggcactctca tctcttacga aggaagagtt cagcttttgg 180
agattgccc agtacccgat gagcatgtga atgaatttaa atcaatcgag aagttaaaga 240
tattcaacac taacaactt 259

<210> 1413
<211> 265
<212> DNA
<213> Zea mays

<400> 1413

tcctcgcat gttaccgagg acttcttgcc acttcccagc aaagggaat ctgggaagga 60
tggttggtat cctctgggc atggtgatgt gtttccctct ttgaataaca gcggaaaact 120
tgacatctta ttggctcagg gcaaagagta tgtctttggt gcaaactcag acaacttggg 180
tgctatagtc gacatcaaga tcctaaacca tctgatcaat aaccagaacg agtactgcat 240
ggaggttact ccaaagacgc tggct 265

<210> 1414
<211> 278
<212> DNA
<213> Zea mays

<400> 1414

caagtaccg atgagcatgt gaatgaattt aatcaatcg agaagtttaa gatattcaac 60
actaacaact tgtgggtgaa ccttaaagct atcaagagac tcgtagaggc tgaggcactt 120
aagatggaaa ttattccaaa cccaaggaa gttgatggtg tgaaagtcct tcaactcgaa 180

accgcagctg gtgcagctat tcggttcttc gacaaagcga ttggaattaa tgttccgcgc ,240
tcaaggtttc tcccagtga ggctacatct gatctggt 278

<210> 1415
<211> 269
<212> DNA
<213> Zea mays

<400> 1415

gggaaatctg ggaaggatgg ctggtatcct cctggtcatg gtgatgtgtt tccttctttg 60
aataacagcg gaaaacttga catcttattg gctcagggca aggagtatgt ctttgttgca 120
aactcagaca acttgggtgc tatagtcgac atcaagatcc taaaccatct gatcaataac 180
cagaacgagt actgcatgga ggttactcca aagacgctgg ctgacgttaa ggggtggcact 240
ctcatctctt acgaaggaag agttcagct 269

<210> 1416
<211> 293
<212> DNA
<213> Zea mays

<400> 1416

aagctatcaa gagactcgta gaggctgagg cacttaagat ggaaattatt ccaaacccca 60
aggaagttga tgggtgtgaaa gtccttcaac tcgtaaccgc agctgggtgca gctattcggt 120
tcttcgacta agcgattgga ataatgttcc ccgcacatag aatctcccag tgaaggctac 180
atctgatctg ttgcttgtgc agtctgatct ttacaccttg gttgatggct ttgtcatccg 240
caacccatcc agagcgaatc cagctaacc ttcaattgag cttggacctg agt 293

<210> 1417
<211> 329
<212> DNA
<213> Zea mays

<400> 1417

ccgcaatcca tccagagcga atccagctaa cccttcgatt gagcttggac ctgagttcaa 60
gaaggttgcc aatttccttg ctcggttcaa gtccatcccc agcatcgtcg agcttgacag 120
cttgaagggt tctggtgatg tctggtttgg ttctggaatt acgctcaagg gcaagggtgac 180

aatcaccgcc aagtctggag tgaagttgga ggttccagat ggagctgtat ttgaaaacaa 240
ggatgtcaat ggccctgagg atctttaagc tagcttgccg tcaccagttt ttcccaagga 300
tttgtcaata ggagcagcca acccaaatc 329

<210> 1418
<211> 262
<212> DNA
<213> Zea mays

<400> 1418

gtgaaagtcc ttcaacttga aactgcagct ggtgcagcta ttcgtttctt tgacaaagcg 60
attggaatta atgttccccg ctcaagattt ctcccgggtga aggctacatc tgatttattg 120
cttgtgcagt ctgatcttta caccttggtt gatggctttg tcatccgcaa tccatccaga 180
gcgaatccag ctaacccttc gattgagctt ggacctgagt tcaagaaggt tgccaatttc 240
cttgctcggt tcaagtccat cc 262

<210> 1419
<211> 259
<212> DNA
<213> Zea mays

<400> 1419

gttaaggggtg gcactctcat ctcttacgaa ggaagagttc agcttttgga gattgcccac 60
gtacccgatg agcatgtgaa tgaatttaaa tcaatcgaga agtttaagat attcaacact 120
aacaacttgt gggatgaacct taaagctatc aagagactcg tagaggctga ggcacttaag 180
atggaaatta ttccaaaccc caaggaagtt gatgggtgtga aagtccttca actcgaaacc 240
gcagctgggtg cagctattc 259

<210> 1420
<211> 252
<212> DNA
<213> Zea mays

<400> 1420

ctttacacct tggttgatgg ctttgtcatc cgcaacccat ccagagcgaa tccagctaac 60
ccttcaattg agcttggacc tgagttcaag aaggttgcca atttccttgc tcggttcaag 120

tccatcccca gcatagttga gcttgacagc ttgaaggttt ctggtgatgt ctggtttggc 180
tctggaatta cactcaaggg caaggtgaca attatcgcca agcctggagt gaagttggag 240
attccagatg ga 252

<210> 1421
<211> 302
<212> DNA
<213> Zea mays

<400> 1421

cgtttcgaag cctcgcgagc cccgacgatg gccaccaccg cgggtgctggt cgacgagaag 60
ctcgataagc ttcgcgccga ggtcgccaag ctcgaccaga tcagcgagaa cgagaagtcc 120
gggttcatca gcctcgtgtc acggtacctc agtggggagg cggacagatc gagtggagca 180
agatccagac ccctacggat gacgtggtgg tgccctacga taccgtcgcg tcgcctcccg 240
aagatctcga ggagacgaag aagctgctgg ataagctcgt tgtgctcaag cttaacggag 300
gg 302

<210> 1422
<211> 249
<212> DNA
<213> Zea mays

<400> 1422

cggctcgagt caaagggat ctgggctctg gttgaaagta tgaatttcga tggttgagtt 60
ggaatacttc tcaacaatct tctgtgtgtc atcatgggtg ttgaaagagt tcatcagaag 120
taaagggaca ttgcatccat acttcttgtt cagggactca atttgaatca caataaggtc 180
aaggaatgtg aaccattgc ggacttcaat gacagacttg ggcccagtgc agcccatggt 240
cgtcccag 249

<210> 1423
<211> 283
<212> DNA
<213> Zea mays

<400> 1423

ccttaagata ttcaagacta acaacttgtg ggtgaacctt aaagctatca agagactcgt 60

agacgctgag gcacttaaga tggcgattat tccaaacccc aaggaagttg atggtgtgaa 120
 agtccttcaa ctcgaaaccg cagctgggtgc agctattcgg ttcttcgaca aagcgattgg 180
 aattaatgtt ccccgcctcaa ggtttctccc agtgaaggct acatctgata tgttgcttgt 240
 gcagtctgat ctttacagct tggttgatgg ctttgtcatc cgc 283

<210> 1424
 <211> 270
 <212> DNA
 <213> Zea mays
 <400> 1424

agcgaatcca gctaaccctt caattgagct tggacctgag ttcaagaagg ttgccaat 60
 ccttgctcgg ttcaagtcca tccccagcat agttgagctt gacagcttga aggtttctgg 120
 tgatgtctgg tttggctctg gaattacact caagggcaag gtgacaatta tcgccaagcc 180
 tggagtgaag ttggagattc cagatggaga cgtacttgag aacaaggatg tcaatggccc 240
 tgaggatctt taagcaatgt ttgtcatcac 270

<210> 1425
 <211> 258
 <212> DNA
 <213> Zea mays
 <400> 1425

tggagattgc ccaagtacct gatgagcatg tgaatgagtt taaatcaatc gagaagttaa 60
 agatattcaa cactaacaac ttgtgggtga accttaaagc tgtcaagaga ctagtagagg 120
 ctgaggcact taagatggaa attattccaa accccaagga agttgatggg gtgaaagtcc 180
 ttcaacttga aactgcagct ggtgcagcta ttcgtttctt tgacaaagcg attggagtta 240
 atgttccccg ctcaagat 258

<210> 1426
 <211> 307
 <212> DNA
 <213> Zea mays
 <400> 1426

gcagcttaaa gctatcaaga gactcgtaga ggctgaggca ctttaagatgg aaattattcc 60

aaacccaag gaagttgatg gtgtgaaagt ccttcaactc gaaaccgcag ctggtgcagc 120
tattcggttc ttcgacaaag cgattggaat taatgttccc cgctcaaggt ttctcccagt 180
gaaggctaca tctgatctgt tgcttggtgca gtctgatctt tacaccttgg ttgatggctt 240
tgtcatccgc aacccatcca gagcgaatcc agctaaccct tcaattgagc ttggagctga 300
gttcaag 307

<210> 1427
<211> 230
<212> DNA
<213> Zea mays

<400> 1427

ctacatctga tctgttgctt gtgcagtctg atctttacac cttggttgat ggctttgtca 60
tccgcaaccc atccagagcg aatccagcta acccttcaat tgagcttgga cctgagttca 120
agaaggttgc caatttcctt gctcgggttca agtccatccc cagcatagtt gagcttgaca 180
gcttgaaggt ttctggtgat gtctggtttg gctctggaat tacactcaag 230

<210> 1428
<211> 271
<212> DNA
<213> Zea mays

<400> 1428

ggcacttaag atggaaatta ttccaaaccc caaggaagtt gatggtgtga aagtccttca 60
actcgaaacc gcagctggtg cagctattcg gttcttcgac aaagcgattg gaattaatgt 120
tccccgctca aggtttctcc cagtgaaggc tacatctgat ctgttgcttg tgcagtctga 180
tctttacacc ttggttgatg gctttgtcat ccgcaaccca tccagagcga atccagctaa 240
cccttcaatt gagcttggaac ctgagttcaa g 271

<210> 1429
<211> 243
<212> DNA
<213> Zea mays

<400> 1429

cccacgcgtc cgggtgttcc ttcggttgaat aacagcggaa aacttgacat cttattggct 60

cagggcaagg agtatgtctt tgttgcaaac tcagacaact tgggtgctat agtcgacatc 120
aagatcctaa accatctgat caataaccag aacgagtact gcatggaggt tactccaaag 180
acgctggctg acgttaaggg tggcactctc atctcttacg aaggaagagt tcagcttttg 240
gag 243

<210> 1430
<211> 317
<212> DNA
<213> Zea mays

<400> 1430

ggcacacaca ccacaccaca cctcctcgtt tccactccgc tcgtctgaca tctcgtcccg 60
tcctttcgtt tcgaagcctc gcgagccccg acgatggcca ccgccgcggt gtcggtcgac 120
gagaagctcg acaagcttcg cgccgaggtc gccaaagctcg accagatcag cgagaacgag 180
aagtccgggt tcatcagcct cgtgtcacgc tacctcagtg gggaagcgga gcagatcgag 240
tggagcaaga tccagacccc tacggatgag gtggtggtgc cctacgatac cgtcgcgtcg 300
cctcccgaag atctcga 317

<210> 1431
<211> 242
<212> DNA
<213> Zea mays

<400> 1431

cttcgacaaa gcgattggaa ttaatgttcc ccgctcaagg tttctcccag tgaaggctac 60
atctgatctg ttgcttgtgc agtctgatct ttacaccttg gttgatggct ttgtcatccg 120
caacccatcc agagcgaatc cagctaacc ttcaattgag cttggacctg agttcaagaa 180
ggttgccaat ttccttgctc ggttcaagtc catccccagc atagttgagc ttgacagctt 240
ga 242

<210> 1432
<211> 214
<212> DNA
<213> Zea mays

<400> 1432

aaggacttct tgccacttcc aagcaaaggg aaatctggga aggatggctg gtatcctcca 60
ggccatggtg atgtgttccc ctctttgaat aacagtggaa aactcgacat cttattggct 120
cagggcaagg agtatgtctt cgttgctaac tcagacaact tgggtgctat agtcgacatc 180
aagatcctga accatctgat caataaccag aatg 214

<210> 1433
<211> 318
<212> DNA
<213> Zea mays

<400> 1433

aggcagacgg cacacacacc acaccacacc tcctcgcttc cactccgctc gtctgacatc 60
tcgtcccgtc ctttcgtttc gaagcctcgc gagccccgac gatggccacc gccgcggtgt 120
cggtcgacga gaagctcgac aagcttcgcg ccgaggtcgc caagctcgac cagatcagcg 180
agaacgagaa gtccgggttc atcagcctcg tgtcacgcta cctcagtggg gaagcggaca 240
gatcgagtgg agcaagatcc agaccctac ggatgaggtg gtggtgccct acgataccgt 300
cgcgtcgctt cccgaaga 318

<210> 1434
<211> 234
<212> DNA
<213> Zea mays

<400> 1434

gcacgagggg aaatctggga aggatggctg gtatcctcct ggtcatggtg atgtgtttcc 60
ttctttgaat aacagcggaa aacttgacat cttattggct cagggcaagg agtatgtctt 120
tggtgcaaac tcagacaact tgggtgctat agtcgacatc aagatcctaa accatctgat 180
caataaccag aacgagtact gcatggaggt tactccaaag acgctggctg acgt 234

<210> 1435
<211> 255
<212> DNA
<213> Zea mays

<400> 1435

cggtaactctc atctcttacg aaggaagagt tcagcttttg gagattgccc aagtaccta 60

tgagcatgtg aatgagttta aatcaatcga gaagtttaag atattcaaca ctaacaactt 120
 gtgggtgaac cttaaagctg tcaagagact agtagaggct gaggcactta agatggaaat 180
 tattccaaac cccaaggaag ttgatggtgt gaaagtcctt caacttgaaa ctgcagctgg 240
 tgcagctatt cgttt 255

<210> 1436
 <211> 302
 <212> DNA
 <213> Zea mays

<400> 1436

cacaccacac cacacctcct cgcttccact ccgctcgtct gacatctcgt cccgtccttt 60
 cgtttogaag cctcgcgagc cccgacgatg gccaccgccg cgggtgcggt cgacgagaag 120
 ctcgacaagc ttcgcgccga ggtcgccaag ctcgaccaga tcagcgagaa cgagaagtcc 180
 gggttcatca gcctcgtgtc acgctacctc agtggggaag cggagcagat cgagtggagc 240
 aagatccaga cccctacgga tgaggtggtg gtgccctacg ataccgtcgc gtcgcctccc 300
 ga 302

<210> 1437
 <211> 312
 <212> DNA
 <213> Zea mays

<400> 1437

cacaccacac ctctcgtctt gcactccgct cgtctgacat ctcgctccgt cctttcgttt 60
 cgaagcctcg cgagccccga cgatggccac caccgcggtg tcggtcgacg agaagctcga 120
 taagcttcgc gccgaggtcg ccaagctcga ccagatcagc gagaacgaga agtccgggtt 180
 catcagcctc gtgtcacggt acctcagtgg ggaggcggac agatcgagtg gagcaagatc 240
 cagacccta cggatgaggt ggtggtgccc tacgatacca tcgcgtcgcc tccgaagatc 300
 tcgaggagac ga 312

<210> 1438
 <211> 225
 <212> DNA
 <213> Zea mays

<400> 1438
gcacgagggg aaatctggga aggatggctg gtatcctcct ggtcatgggtg atgtgtttcc 60
ttctttgaat aacagcggaa aacttgacat cttattggct cagggcaagg agtatgtctt 120
tgttgcaaac tcagacaact tgggtgctat agtcgacatc aagatcctaa accatctgat 180
caataaccag aacgagtact gcatggaggt tactccaaag acgct 225

<210> 1439
<211> 230
<212> DNA
<213> Zea mays

<400> 1439
cccacgcgtc cgggctggta tcctcctggg catgggtgatg tgtttccttc tttgaataac 60
agcggaaaac ttgacatctt attggctcat ggcaaggagt atgtctttgt tgcaaactca 120
gacaacttgg gtgctatagt cgacatcaag atcctaaacc atctgatcaa taaccagaac 180
gagtactgca tggaggttac tccaaagacg ctggctgacg ttaaggggtg 230

<210> 1440
<211> 309
<212> DNA
<213> Zea mays

<400> 1440
cacacaccac accacacctc ctcgcttcca ctccgctcgt ctgacatctc gtcccgtcct 60
ttcgtttcga agcctcgca gccccgacga tggccaccgc cgcggtgtcg gtcgacgaga 120
agctcgacaa gcttcgcgcc gaggtcgcca agctcgacca gatcagcgag aacgagaagt 180
ccgggttcat cagcctcgtg tcacgctacc tcagtgggga agcggacaga tcgagtggag 240
caagatccag acccctacgg atgaggtggt ggtgcctacg ataccgtcag cgtcgctccg 300
aagatctcg 309

<210> 1441
<211> 254
<212> DNA
<213> Zea mays

<400> 1441

agtacttcaa cttgaaactg cagctggtgc agctattcgt ttctttgaca aagcgattgg 60
 aattaatggt ccccgctcaa gatttctccc ggtgaaggct acatctgatt tattgcttgt 120
 gcagtctgat ctttacacct tggttgatgg ctttgtcatc cgcaatccat ccagagcgaa 180
 tccagctaac ccttcgattg agcttggacc tgagttcaag aaggttgcca atttccttgc 240
 tcggttcaag tcca 254

<210> 1442
 <211> 307
 <212> DNA
 <213> Zea mays

<400> 1442

acacacacca caccacacct cctcgcttgc actccgctcg tctgacatct cgtcccgtcc 60
 tttcgtttcg aagcctcgcg agccccgacg atggccacca ccgcggtgtc ggtcgacgag 120
 aagctcgata agcttcgcgc cgaggtcgcc aagctcgacc agatcagcga gaacgagaag 180
 tccgggttca tcagcctcgt gtcacggtac ctcaagtggg aggcgagca gatcgagtgg 240
 agcaagatcc agaccctac ggatgaggtg gtggtgccct acgataccgt cgcgtcgcct 300
 cccgaaa 307

<210> 1443
 <211> 203
 <212> DNA
 <213> Zea mays

<400> 1443

gaacaagaag tatggatgca atgtcccttt acttctgatg aactctttca acacccatga 60
 tgacacacag aagattgttg agaagtattc caactccaac atcgaatttc atactttcaa 120
 tcagagccag taccctcgca ttggtaccga ggacttcttg ccacttccca gcaaaggga 180
 atctgggaag gatggctggt atc 203

<210> 1444
 <211> 287
 <212> DNA
 <213> Zea mays

<400> 1444

gagttcaaga aggttgccaa tttccttggt cggttcaagt ccatccccag catagttgag 60
 cttgacagct tgaaggtttc tggatgatgtc tggtttggtc ctggaattac actcaagggc 120
 aaggtgacaa ttatcgccaa gcctggagtg aagttggaga ttccagatgg agacgtactt 180
 gagaacaagg atgtcaatgg ccctgaggat ctttaagcaa tgtttatcat caccagtttt 240
 cccaaggaca tgtcacagga actgccaagc ctaatcactc ctactga 287

<210> 1445
 <211> 239
 <212> DNA
 <213> Zea mays

<400> 1445

cccacgcgct cgcccacgcg tccgacaact tgtgggtgaa ccttaaagct gtcaagagac 60
 tagtagaggc tgaggcactt aagatggaaa ttattccaaa cccaaggaa gttgatggtg 120
 tgaaagtcct tcaacttgaa actgcagctg gtgcagctat tcgtttcttt gacaaagcga 180
 ttggaattaa tgttccccgc tcaagatttc tcccggtgaa ggctacatct gatttattg 239

<210> 1446
 <211> 269
 <212> DNA
 <213> Zea mays

<400> 1446

cagcgcgcgt acgtgagcgc gcggttgggc tcgagcgacc ttagagctat caagagagtc 60
 gtagagggct gaggcacttg agcatggaga ttgttccaga cccaaggga gttgatggtg 120
 tgagagtcct tcaactcgaa accgcagctg gtgcagctat tcggttcttc gacaaagcga 180
 ttggaattaa tgttccccgc tcaaggtttc tcccagtgaa ggctacatct ggtctgttgc 240
 ttgtgcagtc tggcttttac agcttggtt 269

<210> 1447
 <211> 224
 <212> DNA
 <213> Zea mays

<400> 1447

cggaccgtgg gccttaaagc tatcaagaga ctgtagagg ctgaggcact taagatggaa 60

attattccaa accccaagga agttgatggt gtgaaagtcc ttcaactcga aaccgcagct 120
 ggtgcagcta ttcggttctt cgacaaagcg attggaatta atgttccccg ctcaagggtt 180
 ctcccagtgga aggctacatc tgatctgttg cttgtgcagt ctga 224

<210> 1448
 <211> 273
 <212> DNA
 <213> Zea mays

<400> 1448

agaaggttgc caatttcctt gtcggttca agtccatccc cagcatagtt gagcttgaca 60
 gcttgaaggt ttctggtgat gtctggtttg gctctggaat tacactcaag ggcaagggtga 120
 caattatcgc caagcctgga gtgaagttgg agattccaga tggagacgta cttgagaaca 180
 aggatgtcaa tggccctgag gatctttaag caatgtttgt catcaccagt ttttcccaag 240
 gacatgtcac aggaactgcc aagcctagtc act 273

<210> 1449
 <211> 293
 <212> DNA
 <213> Zea mays

<400> 1449

gaaggttgcc aatttccttg ctcggttcaa gtccatcccc agcatcgtcg agcttgacag 60
 cttgaaggtt tctggtgatg tctggtttgg ttctggaatt acgctcaagg gcaagggtgac 120
 aatcaccgcc aagtctggag tgaagttgga gattccagac ggagctgtat ttgaaaacaa 180
 ggatgtcaat ggccctgagg atctttaagc tatgcttgcc gtcaccagtt tttcccaagg 240
 acatgtcaat aggagctgcc aacccaaatc actcccgtcg agctctacct ttt 293

<210> 1450
 <211> 311
 <212> DNA
 <213> Zea mays

<400> 1450

caccacacct cctcgcttgc actccgctcg tctgacatct cgtcacgtcc tttcgtttcg 60
 aagcctcgcg agccccgacg atggccacca ccgcggtgtc ggtcgacgag aagctcgata 120

agcttcgcgc cgaggctgcc aagctcgacc agatcagcga gaacgagaag tccgggttca 180
tcagcctcgt gtcacggtac ctcaagtggg aggcggacag atcgagtgga gcaagatcca 240
gacccctacg gatgaggtgg tggcgcccta cgataccgtc gcgtacgctc ccgaagatct 300
cgaggagacg a 311

<210> 1451
<211> 277
<212> DNA
<213> Zea mays

<400> 1451

cacaccacac ctctcgtctt gcactccgct cgtctgacat ctctcccggt cctttcgttt 60
cgaagcctcg cgagccccga cgatggccac caccgcggtg tcggtcgacg agaagctcga 120
taagcttcgc gccgaggtcg ccaagctcga ccagatcagc gagaacgaga agtccgggtt 180
catcagcctc gtgtcacggt acctcagtgg ggaggcggac agatcgagtg gagcaagatc 240
cagaccccta cggatgaggt ggtggtgccc tacgata 277

<210> 1452
<211> 220
<212> DNA
<213> Zea mays

<400> 1452

ccaagtacct gatgagcatg tgaatgagtt taaatcaatc gagaagttta agatattcaa 60
cactaacaac ttgtgggtga accttaaagc tgtcaagaga ctagtagagg ctgaggcact 120
taagatggaa attattccaa accccaagga agttgatggg gtgaaagtcc ttcaatttga 180
aactgcagct ggtgcagcta ttggtttctt agacaaagcg 220

<210> 1453
<211> 199
<212> DNA
<213> Zea mays

<400> 1453

gcaagatcca gacccctacg gatgaggtgg tggcgcccta cgataccgtc gcgtcgctc 60
ccgaagatct cgaggagacg aagaagctgc tggataagct cgttgtgctc aagcttaacg 120

gagggctcgg gacgaccatg ggctgcactg ggcccaagtc tgtcattgaa gtccgcaatg 180
 ggttcacatt cctggacct 199

<210> 1454
 <211> 259
 <212> DNA
 <213> Zea mays

<400> 1454

aagttgccaa tttccttgct cggttcaagt ccatccccag catagttgag cttgacagct 60
 tgaaggtttc tggatgatgc tggtttggtc ctggaattac actcaagggc aaggtgacaa 120
 ttatcgccaa gcctggagtg aagttggaga ttccagatgg agacgtactt gagaacaagg 180
 atgtcaatgg ccttgaggat ctttaagcaa tgtttgtcat caccagtttt tcccaaggac 240
 atgtcacagg aactgccga 259

<210> 1455
 <211> 294
 <212> DNA
 <213> Zea mays

<400> 1455

cacacctcct cgcttgcaact ccgctcgtct gacatctcgt cccgtccttt cgtttcgaag 60
 cctcgcgagc cccgacgatg gccaccaccg cgggtgctggt cgacgagaag ctcgataagc 120
 ttcgcgccga ggtcgccaag ctcgaccaga tcagcgagaa cgagaagtcc gggttcatca 180
 gcctcgtgtc acggtacctc agtggggagg cggacagatc gagtggagca agatccagac 240
 ccctacggat gacgtggtgg tgccctacga taccgtcgcg tcgcctcccg aaga 294

<210> 1456
 <211> 307
 <212> DNA
 <213> Zea mays

<400> 1456

accacacaac ctcgcttcca caccgctcgt ctgacatata gtcccgtcct ttcgtttcga 60
 agcctcgcca gcaccgacga tagccaccgc cgcggtgtcg gtcgacgaga agctcgacaa 120
 gcttcgcgcc gaggtcgcca agctcgacca gatcagcgag aacgagaaga ccgggttcat 180

cagcctcgtg tcacgctacc tcagtaggga agcggagcag atcgagtgga gcaagatcca 240
gacacctacg gatgaggtgg tggtgcccta cgataccgtc gcgtcgcctc ccgaagatct 300
cgaggag 307

<210> 1457
<211> 270
<212> DNA
<213> Zea mays

<400> 1457

cggacgctgg gttctgaggc tcgcgaaccc cgacgatggc cgccaccgcg gtgtcggtcg 60
acgagaagct cgacaagctt cgcgccgagg tcgccaaact caaccagatc agcgagaacg 120
agaagtccgg gttcatcagc ctctgtgtcac gttacctcag tggggaggcg gacagatcga 180
gtggagcaag atccagaccc cgaccgatga ggtggtggtg ccgtacgata tcctcgcgtc 240
acctactgaa gatctcgagg agacgaagaa 270

<210> 1458
<211> 265
<212> DNA
<213> Zea mays

<400> 1458

cagccccctcc tcgctcgcac tccgctcgac tgacatctcc tcccgtcctt tcgtttctga 60
ggctcgcgaa ccccgacgat ggccgccacc gcggtgtcgg tcgacgagaa gctcgacaag 120
cttcgcgcgg aggtcgccaa actcaaccag atcagcgaga acgagaagtc cgggttcac 180
agcctcgtgt cacgttacct cagtggggag gcggagcaga tcgagtggag ctagatccag 240
accccgaccg catgagtggg ggtgc 265

<210> 1459
<211> 307
<212> DNA
<213> Zea mays

<400> 1459

ggacctgggc ggcagacggc acacacacca caccacacct cctcgcttcc actccgctcg 60
actgacatct cgtcccgtcc tttcgtttcg aagcctcgcg agccccgacg atggccaccg 120

ccgcggtgtc ggtcgacgag aagctcgaca agcttcgcgc cgaggtcgcc aagctcgacc 180
agatcagcga gaacgagaag tccgggttca tcagcctcgt gtcacgctac ctcaagtggg 240
aagcggacag atcgagtgga gcaagatcca gaccctacg gatgaggtgg tggcgcccta 300
cgatacc 307

<210> 1460
<211> 259
<212> DNA
<213> Zea mays
<400> 1460

cccacgcgtc cgctcctcgc cttgcactcc gtcgtctga catctcgtcc cgtcctttcg 60
tttcgacgcc tcgcgagccc cgacgatggc caccaccgcg gtgctggtcg acgagaagct 120
cgataagctt cgcgccgagg tcgccaagct cgaccagatc agcgagaacg agaagtccgg 180
gttcatcagc ctctgtcac ggtacctcag tggggaggcg gacagatcga gtggagcaaa 240
tccagaccct acggatgag 259

<210> 1461
<211> 314
<212> DNA
<213> Zea mays
<400> 1461

accacaccac acctcctcgc ttgcactccg ctctgtctgac atctcgtccc gtcctttcgt 60
ttcgaagcct cgcgagcccc gacgatggcc accaccgcgg tgctggtcga cgagaagctc 120
gataagcttc gcgccgaggt cgccaagctc gaccagatca gcgagaacga gaagtccggg 180
ttcatcagcc tcgtgtcacg gtacctcagt ggggaggcgg acagatcgag tggagcaaga 240
tccagacccc tacggatgag gtggtggtgc cctacgatac cgtcgcgtcg cctcccgaag 300
atctcgagga gacg 314

<210> 1462
<211> 238
<212> DNA
<213> Zea mays

<220>

<221> unsure
 <222> (1) .. (238)
 <223> unsure at all n locations

<400> 1462

gttcgtctga catctcctcc cgtcctttcc tttctgaggc tcgcaacccc cgacaatggc 60
 cgcaaccgcg gtgtcggtcg acgagaagct cgacaagctt cgcgccgagg tcgccaaact 120
 cagccagatc agcgagaacg agaaggccgg gttcatcagc ctcgtgtcac gctacctcag 180
 tggggaggcg ganagatcga gtggagcaag atccagaccc cgaccgatga ggtagtgg 238

<210> 1463
 <211> 289
 <212> DNA
 <213> Zea mays

<400> 1463

acacaccaca ccacacctcc tcgcttgac tccgctcgtc tgacatctcg tcccgtcctt 60
 tcgttttcgaa gcctcgcgag caccgacgat ggccaccacc gcggtgtcgg tcgacgagaa 120
 gctcgataag cttecgcgccg aggtcgccaa gctcgaccag atcagcgaga acgacaactc 180
 cgggttcacg agcctcgtgt cacggtacct cagtggggag gcggacagat cgagtggagc 240
 aagatccaga cccctaagga tgagggtgtg gtgccctacg ataccgtcg 289

<210> 1464
 <211> 299
 <212> DNA
 <213> Zea mays

<400> 1464

gcagtetaac agcaccacct cctcgctcgc actcggttcg tctgaactct cctcccgtcc 60
 tttcctttct gaggtcgcg aaccccgaca atggccgcaa ccgcggtgtc ggtcgacgag 120
 aagctcgaca agcttcgcgc cgaggtcgcc aaactcagcc agatcagcga gaacgagaag 180
 gccgggttca tcagcctcgt gtcacgtac ctcagtgggg aggcggacag atcgagtgga 240
 gcaagatcca gaccccgacc gatgaggtag tgggtgccgta cgataccctc acgtcgcct 299

<210> 1465
 <211> 257
 <212> DNA

<213> Zea mays
 <400> 1465
 gcacccccctc ctcgctcgca ctccgctcgt ctgacatctc ctcccgtcct ttcctttctg 60
 aggctcgcga accccgacga tggccgccac cgcggtgtcg gtcgacgaga agctcgacaa 120
 gcttcgcgcc gaggtcgcca aactcaacca gatcagcgag aacgagaagt ccgggttcat 180
 cagcctcgtg tcacgttacc tcagtgggga ggcggacaga tcgagtggag caagatccag 240
 accccgaccg atgaggt 257

<210> 1466
 <211> 188
 <212> DNA
 <213> Zea mays
 <400> 1466
 ggaagttgat ggtgtgaaag tccttcaact cgaaaccgca gctgggtgcag ctattcggtt 60
 cttcgacaaa gcgattggaa ttaatgttcc ccgctcaagg tttctcccag tgaaggctac 120
 atctgatctg ttgcttgtgc agtctgatct ttacaccttg gttgatggct ttgtcatccg 180
 caacccat 188

<210> 1467
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 <212> DNA
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 <400> 1467
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 cgagaagctc gacaagcttc gcgccgaggt cgccaagctc gaccagatca gcgagaacga 180
 gaagtccggg ttcattcagcc tcgtgtcacg ctacctcagt ggggaagcgg acagatcgag 240
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<210> 1468
 <211> 275
 <212> DNA
 <213> Zea mays

<400> 1468

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cccgtccttt cctttcgaag cctcgcgagc cccgacgatg gccaccgccg cggtgtcggg 120
cgacgagaag ctcgacaagc ttcgcgccga ggctcgccaag ctcgaccaga tcagcgagaa 180
cgagacgtcc gggttcatca gcctcgtgtc ccgctacctc agtggggaag cggacagatc 240
gagtggagca agatccagac ccctacggat gaggt 275

<210> 1469

<211> 315

<212> DNA

<213> Zea mays

<400> 1469

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gataagcttc gcgccgaggt cgccaagctc gaccagatca gcgagaacga gaagaccggg 180
ttcatcagcc tcgtgtcacg gtacctcagt acggaggcgg agcagatcga gtagagcaag 240
atccagactc ctacggatga ggtgggtgga ccctacgata cagtcgcgtc gcctcccga 300
gatctcgagg agacg 315

<210> 1470

<211> 250

<212> DNA

<213> Zea mays

<400> 1470

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cgagaagctc gacaagcttc gcgccgaggt cgccaagctc gaccagatca gcgagaacga 180
gaagtccggg ttcatcagcc tcgtgtcacg ctacctcagt ggggaagcgg acagatcgag 240
tggaagaagat 250

<210> 1471

<211> 255

<212> DNA

<213> Zea mays

<400> 1471

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ctttcgtttc gaagcctcgc gagccccgac gatggccacc gccgcggtgt cggtcgacga 120
gaagctcgac aagcttcgcg ccgaggtcgc caagctcgac cagatcagcg agaacgagaa 180
gtccgggttc atcagcctcg tgtcacgcta cctcagtggg gaagcggaca gatcgagtgg 240
agcaagatcc agacc 255

<210> 1472

<211> 276

<212> DNA

<213> Zea mays

<400> 1472

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cccgtccttt cgtttcgaag cctcgcgagc cccgacgatg gccaccgccg cgggtgtcgg 120
cgacgagaag ctcgacaagc ttcgcgccga ggtcgccaag ctcgaccaga tcagcgagaa 180
cgagaagtcc gggttcatca gcctcgtgtc acgctacctc agtggggaag cggacagatc 240
gagtggagca agatccagac ccctacggat gaggtg 276

<210> 1473

<211> 256

<212> DNA

<213> Zea mays

<400> 1473

ctccccctcc tcgctcgac tcgctcgtc tgacatctcc tcccgtcctt tcctttctga 60
ggctcgcgaa ccccgacgat ggccgccacc gcggtgtcgg tcgacgagaa gctcgacaag 120
cttcgcgccg aggtcgccaa actcaaccag atcagcgaga acgagaagtc cgggttcac 180
agcctcgtgt cacgttacct cagtggggag acggagcaga tcgagtgaga ccagatccag 240
accccgacgg ataagg 256

<210> 1474

<211> 258

<212> DNA

<213> Zea mays
 <400> 1474

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cggacgcgtg gcgacgcgt gggcggacgc gtgggcggac gcgtgggcag cggaaaactt 60
gacatcttat aggctcaggg caatgagtat gtctttgttg caaactcaga caacttgggt 120
gctatagtcg acatcaagat cctaaaccat ctgatcaata accagaacga gtactgcatg 180
gaggttactc caaagacgct ggctgacgtt aagggtggca ctctcatctc ttacgaagga 240
agagttcagc ttttgag                                     258

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<210> 1475
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 <212> DNA
 <213> Zea mays
 <400> 1475

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gaagctcgac aagctcgcgc cgaggtcgcc aagctcgacc agagtagcga gaacgagaag 180
tccgggttca tcagcctcgt gtcacgctac ctcaagtggg aagcggacag atcgagtgga 240
gcaagatcca gaccctacgg atgaggtggt ggtgcctacg ataccgtcgc gt 292

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<210> 1476
 <211> 308
 <212> DNA
 <213> Zea mays
 <400> 1476

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gccaagcctg gagtgaagtt ggagattcca gatggagacg tacttgagaa caaggatgtc 180
aatggccctg aggatcttta agcaatgttt gtcacacca gtttttccca aggacatgtc 240
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attccgat                                     308

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<210> 1477

<211> 189
 <212> DNA
 <213> Zea mays

 <400> 1477

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 acaatcaccg ccaagtctgg agtgaagttg gagattccag acggagctgt atttgaaaac 120
 aaggatgtca atggccctga ggatctttaa gctatgcttg ccgtcaccag tttttcccaa 180
 ggacatgtc 189

<210> 1478
 <211> 158
 <212> DNA
 <213> Zea mays

 <400> 1478

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 tagtagaggc tgaggcactt aagatggaaa ttattccaaa cccaaggaa gttgatgggtg 120
 tgaaagtccg tcaacttgaa actgcagctg gtgcagct 158

<210> 1479
 <211> 245
 <212> DNA
 <213> Zea mays

 <400> 1479

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 cgccgcggtg tcggtcgacg agaagctcga caagcttcgc gccgaggtcg ccaagctcga 180
 ccagatcagc gagaacgaga agtccgggtt catcagcctc gtgtcacgct acctcagtgg 240
 ggaag 245

<210> 1480
 <211> 271
 <212> DNA
 <213> Zea mays

 <400> 1480

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acaatcacccg ccaagtctgg agtgaagttg gagattccag acggaactgt atttgaaaac 120
aaggatgtca atggccctga ggatctttaa gctatgcttg ccgtcaccag tttttcccaa 180
ggacatgtca ataggagctg ccaacccaaa tcaactccgc tgagctctac cttttgtaat 240
tctcgtgccg ttccgcttcc gctgtgaggg t 271

<210> 1481
<211> 247
<212> DNA
<213> Zea mays

<400> 1481

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acaatcacccg ccaagtctgg agtgaagttg gagattccag acggagctgt atttgaaaac 120
aaggatgtca atggccctga ggatctttaa gctatgcttg ccgtcaccag tttttcccaa 180
ggacatgtca ataggagctg ccaacccaaa tcaactccgc tgagctctac cttttgtaat 240
tctcgtg 247

<210> 1482
<211> 225
<212> DNA
<213> Zea mays

<400> 1482

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tcgtttcgaa gcctcgcgag ccccgacgat ggccaccgcc gcggtgtcgg tcgacgagaa 120
gctcgacaag cttecgcgccg aggtcgccaa gctcgaccag atcagcgaga acgagaagtc 180
cgggttcacg agcctcgtgt cagcgtacct cagtggggaa gcgga 225

<210> 1483
<211> 256
<212> DNA
<213> Zea mays

<400> 1483

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gtccttttctt ttcgaagcct cgcgagcccc gacgatggcc accgccgcgg tgtcggtcga 120
cgagaagctc gacaagcacc cgccgaggtc gccaaagctcg accagatcag cgagaacgag 180
aagtccgggt tcatcagcct cgtgtcacgc tacctcagtg gggaagcgga cagatcgagt 240
ggagcaagat ccgacc 256

<210> 1484
<211> 237
<212> DNA
<213> Zea mays

<400> 1484

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gtccttttctt ttctgaggct cgcgaaacccc gacaatggcc gcaaccgcgg tgtcggtcga 120
cgagaagctc gacaagcttc gcgccgaggt cgccaaactc agccagatca gcgagaacga 180
gaaggccggg ttcattcagcc tcgtgtcacg ctacctcagt gggggagcgg gacagat 237

<210> 1485
<211> 223
<212> DNA
<213> Zea mays

<400> 1485

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tcgcgagccc cgacgatggc caccaccgcg gtgtcggctc acgagaagct cgataagctt 120
cgcgcgcgagg tcgccaagct cgaccagatc agcgagaacg agaagtccgg gttcatcagc 180
ctcgtgtcac ggtacctcag tggggaggcg gacagatcga gtg 223

<210> 1486
<211> 141
<212> DNA
<213> Zea mays

<400> 1486

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cttcaacttg aaactgcagc tgggtgcagct attcgtttct ttgacaaagc gattggaatt 120
aatgttcccc gctcaagatt t 141

<210> 1487
 <211> 257
 <212> DNA
 <213> Zea mays

 <400> 1487

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 gtcctttcgt ttcgaagcct cgcgagcccc gacgatggcc accgccgcgg tgctcggtcga 120
 cgagaagctc gacaagcttc gcgccgaggt cgccaagctc gaccagatca gcgagaacga 180
 gaagtccggg ttcattcagcc tcgtgtcacg ctacctcagt ggggaagcgg acagatcgag 240
 tggagcaaga tccagac 257

<210> 1488
 <211> 143
 <212> DNA
 <213> Zea mays

 <400> 1488

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 gcctggagtg aagttggaga ttccagatgg agacgtactt gagaacaagg atgtcaatgg 120
 ccctgaggat ctttaagcaa tgt 143

<210> 1489
 <211> 200
 <212> DNA
 <213> Zea mays

 <400> 1489

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 tcgaagcctc gcgagccccg acgatggcca ccgccgcggg gtcggtcgac gagaagctcg 120
 acaagcttcg cgccgaggtc gccaaagctcg accagatcag cgagaacgag aagtccgggt 180
 tcattcagcct cgtgtcacgc 200

<210> 1490
 <211> 272
 <212> DNA
 <213> Zea mays

<400> 1490

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cccgtccttt cgtttcgaag cctcgcgagc cccgacgatg gccaccgccg cgggtgtcgat 120

cgacgagaag ctcgacaagc ttcgcgccga ggtcgccaaag ctcgaccaga tcagcgagaa 180

cgagaagtcc gggttcatca gcctcgtgtc acgctacctc agtggggaag cggacagatc 240

gagtggagca agatccagac ccctacggat ga 272

<210> 1491

<211> 149

<212> DNA

<213> Zea mays

<400> 1491

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gatcaataac cagaacgagt attgcatgga ggttactcca aagacgctgg ctgacgttaa 120

gggtggcact ctcattctctt acgaaggaa 149

<210> 1492

<211> 189

<212> DNA

<213> Zea mays

<400> 1492

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gtcgacgaga agctcgacaa gcttcgcgcc gaggtcgcca aactcagcca gatcagcgag 120

aacgagaagg ccgggttcat cagcctcgtg tcacgctacc tcagtgggga ggcggacaga 180

tcgagtgga 189

<210> 1493

<211> 295

<212> DNA

<213> Zea mays

<400> 1493

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tttcgaagcc tcgcgagccc cgacgattgc caccaccgcg gtgtcggtcg acgagaagct 120

cgatgagctt cgcgccgagg tcgccaagct cgaccagatc agcgagaacg agaagtccgg 180
gttcatcagc ctcgtgtcac ggtacctcag tggggaggcg gacagatcga gtggagcaag 240
atccagaccc ctacggatga ggtggtggtg cgctacgata ccgtcgcgtc gcctc 295

<210> 1494
<211> 253
<212> DNA
<213> Zea mays

<400> 1494

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gaagttggag attccagatg gagacgtact tgagaacaag gatgtcaatg gccctgagga 120
tctttaagca atgtttatca tcaccagttt tccaaggac atgtcacagg aactgccaaag 180
cctaatact cctactgagc tctatatattt gtaattttca tgtgcattcc gattccgctg 240
tgagggtcat gtg 253

<210> 1495
<211> 286
<212> DNA
<213> Zea mays

<400> 1495

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accacacctc ctcgcttcca ctcacgctcg tctaccatct cgtcccgtcc tttcgtttcg 120
aagcctcgcg agccccgacg atggccaccg ccgcggtgtc ggtcgacgag aagctcgaca 180
agcttcgcbc cgaggtcgcc aagctcgacc agatcagcga gaacgagaag tccgggttca 240
tcagcctcgt gtcacgctac ctcagtgggg aagcggacag atcgag 286

<210> 1496
<211> 116
<212> DNA
<213> Zea mays

<400> 1496

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ctggataagc tcgttgtgct caagcttaac ggagggtcc ggaacgacca tgggct 116

<210> 1497
 <211> 237
 <212> DNA
 <213> Zea mays

<400> 1497

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 cggctcgacga gaagctcgac aagcttcgcg ccgaggctgc caagctcgac cagatcagcg 180
 agaacgagaa gtccgggttc atcagcctcg tgtcacgata tctcagtgga aacgcgg 237

<210> 1498
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 <212> DNA
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<400> 1498

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 gttcatcagc ctcgtgtcac ggtacctcag 150

<210> 1499
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 <212> DNA
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<400> 1499

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 gaagttggag attccagatg gagacgtact tgagaacaag gatgtcaatg gccctg 116

<210> 1500
 <211> 99
 <212> DNA
 <213> Zea mays

<400> 1500

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 cgagaacgag aagtccgggt tcatcagcct cgtgtcacg 99

<210> 1501
 <211> 283
 <212> DNA
 <213> Zea mays

 <400> 1501

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 gcaatgtttg tcatcaccag tttttcccaa ggacatgtca caggaactgc caagcctagt 240
 cactcctact gagatctata ttttgtaatt ttcatgtgca ttc 283

<210> 1502
 <211> 343
 <212> DNA
 <213> Zea mays

 <400> 1502

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 gaataaggat atcagtggcc ctgaggacct ttagataaga atcagcgaat cagcaaggag 240
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 ttccatgata ttatggagaa tattaattgc cagtataatc cag 343

<210> 1503
 <211> 338
 <212> DNA
 <213> Zea mays

 <400> 1503

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 gggatgatgtt tggttcgggt ctggaattgc actgaatggg aaagcgtcca tcaactgcaaa 120
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 gccttgagga cctttagata agaataagcg tatcaccacg tacgcttact tacccaagtg 240

acggatcatc gctcgtggac tctcctgaat atccagacaa gtccgatgat actacggacc 300
 atatcaactg ccagcatatt gcaatcattg tacatgta 338

<210> 1504
 <211> 320
 <212> DNA
 <213> Zea mays

<400> 1504

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 gtactgaagg ggaaagtgac catcactgca aaacctggcg tcaagctaga aatcccagac 300
 ggagcagtga ttgggaataa 320

<210> 1505
 <211> 425
 <212> DNA
 <213> Zea mays

<400> 1505

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 ttcatacttt caatcagagc cagtatcctc gcattgttac cgaggacttc ttgccacttc 180
 caagcaaagg gaaatctggg aaggatggct ggtatcctcc aggccatggg gatgtgttcc 240
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 gcggt 425

<210> 1506
 <211> 414
 <212> DNA
 <213> Zea mays

<400> 1506

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cagctattcg gttcttcgac aaagcgattg gaattaatgt tccccgctca aggtttctcc 180
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gctttgtcat ccgcaacca tccagagcga atccagctaa cccttcaatt gagcttggac 300
ctgagttcaa gaaggttgcc aatttccttg ctcggttcaa gtccatcccc agcatagttg 360
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<210> 1507

<211> 441

<212> DNA

<213> Zea mays

<400> 1507

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attggaatta atgttccccg ctcaagattt ctcccgggtga aggctacatc tgatttattg 180
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cttgctcggt tcaagtccat cccagcatc gtcgagcttg acagcttgaa ggtttctggt 360
gatgtctggt ttggttctgg aattacgctc aagggcaagg tgacaatcac cgccaagtct 420
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<210> 1508

<211> 406

<212> DNA

<213> Zea mays

<400> 1508

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gtgaatgaat ttaaataaat cgagaagttt aagatattca acactaacia cttgtgggtg 120
aaccttaaag ctatcaagag actcgtagag gctgaggcac ttaagatgga aattattcca 180

aacccaagg aagttgatgg tgtgaaagtc cttcaactcg aaaccgcagc tgggtgcagct 240
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 aaggctacat ctgatctggt gcttgtgcag tctgatcttt acaccttggt tgatggcttt 360
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<210> 1509
 <211> 412
 <212> DNA
 <213> Zea mays

<400> 1509

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 cccaagtacc cgatgagcat gtgaatgaat ttaaatcaat cgagaagttt aagatattca 120
 acactaaciaa cttgtgggtg aaccttaaag ctatcaagag actcgtagag gctgaggcac 180
 ttaagatgga aattattcca aacccaagg aagttgatgg tgtgaaagtc cttcaactcg 240
 aaaccgcagc tgggtgcagct attcggttct tcgacaaagc gattggaatt aatgttcccc 300
 gctcaagggt tctcccagtg aaggctacat ctgatctggt gcttgtgcag tctgatcttt 360
 acaccttggt tgatggcttt gtcacccgca acccatccag agcgaatcca gc 412

<210> 1510
 <211> 436
 <212> DNA
 <213> Zea mays

<400> 1510

cccactcgtc cgcccacgcg tccggggagg cggatcagat cgagtggagc aggatccaga 60
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 aggagactaa gaagctgctg gataagctcg ttgtgctcaa gcttaactga gggctcggga 180
 cgaccatggg ctgcactggg cccaagtctg tcattgaagt ccgcaatggg ttcacattcc 240
 ttgaccttat tgtgattcaa attgagtccc tgaacaagaa gtatggatgc aatgtccctt 300
 tacttctgat gaactctttc aacacccatg atgacacaca gaagattggt gagaagtatt 360
 ccaactcaa catcgaaatt catactttca atcatagcca gtatcctctc attgttaccg 420
 aggacttttt gccact 436

<210> 1511
 <211> 407
 <212> DNA
 <213> Zea mays

<220>
 <221> unsure
 <222> (1)..(407)
 <223> unsure at all n locations

<400> 1511

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accaagcgtc cggcctcgtg tcacgctacc tcagtgggga agcggagcag atcgagtgga 60
gcaagatcca gaccctacg gatgaggtgg tggcgcccta cgataccgtc gcgtcgccctc 120
ccgaagatct cgaggagacg aagaagctgc tggataagct cgttgtgctc aagcttaacg 180
gagggctcgg gacgaccatg ggctgcactg ggcccaagtc tgtcattgaa gtccgcaatg 240
ggttcacatt ccttgacctt attgtgattc aaattgagtc cctgaacaag aagtatggat 300
gcaatgtcnc tttacttctg atgaactctt tcaacacca tgatgacaca cagaagattg 360
ttgagaagta ttccaactcc aacatcgaaa ttcatacttt caatcag 407
  
```

<210> 1512
 <211> 440
 <212> DNA
 <213> Zea mays

<400> 1512

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ggctgggtatc ctccaggcca tggatgatgtg ttcccctctt tgaataacag tggaaaactc 60
gacatcttat tggctcaggg caaggagtat gtcttcggtg ctaactcaga caacttgggt 120
gctatagtcg acatcaagat cctgaaccat ctgatcaata accagaatga atactgcatg 180
gaggttactc caaaaacatt ggctgatgtt aaaggcggta ctctcatctc ttacgaagga 240
agagttcagc ttttggagat tgcccaagta cctgatgagc atgtgaatga gtttaaataca 300
atcgagaagt ttaagatatt caacactaac aacttgtggg tgaaccttaa agctgtcaag 360
agactagtag aggctgaggc acttaagatg gaaattatctt caaaccccaa ggaagttgat 420
ggtgtgaaag tccttcaact 440
  
```

<210> 1513
 <211> 445

<212> DNA
 <213> Zea mays

 <400> 1513

 gaagtattcc aactccaaca tcgaaattca tacttttcaat cagagccagt agcctctcgg 60
 tgttaccgag gacttcttgc cacttcccag caaagggaaa tctgggaagg atggctggta 120
 tcctcctggg catgggtgatg tgtttccctc tttgaataac agcggaaaac ttgacatctt 180
 attggctcag ggcaaggagt atgtctttgt tgcaaactca gacaacttgg gtgctatagt 240
 cgacatcaag atcctaaacc atctgatcaa taaccagaac gagtactgca tggagggttac 300
 tccaaagacg ctggctgacg ttaaggggtg cactctcatc tcttacgaag gaagagttca 360
 gcttttggag attgcccaag tatccgatga gcatgtgaat gaatttaaata caatcgagaa 420
 gtttaagata ttcaacacta acaac 445

<210> 1514
 <211> 477
 <212> DNA
 <213> Zea mays

 <220>
 <221> unsure
 <222> (1)..(477)
 <223> unsure at all n locations

<400> 1514

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 gaggtacat ctgatctggt gcttgtgcag tctgatcttt acaccttggg tgatggcttt 120
 gtcacccgca acccatccag agcgaatcca gctaaccctt caattgagct tggacctgag 180
 ttcaagaagg ttgccaattt ccttggtcgg ttcaagtcca tcccagcat agttgagctt 240
 gacagcttga aggtttctgg tgatgtctgg tttggctctg gaattacact caagggcaag 300
 gtgacaatta tcgccaagcc tggagtgaag ttggagattc cagatggaga cgtacttgag 360
 aacaaggatg tcaatggccc tgaggatctt taagcaatgt ttatcatcac cagttttccc 420
 aaggacatgt cacaggaact gccaaagccta atcactncta ctgagctcta tattttg 477

<210> 1515
 <211> 450
 <212> DNA

<213> Zea mays
 <400> 1515
 ggaaattatt ccaaacccca aggaagttgt tgggtgtgaaa gtccttcaac ttgaaactgc 60
 agctgggtgca gctattcggt tctttgacaa agcgattgga attaattgttc cccgctcaag 120
 atttctcccg gtgaaggcta catctgattt attgcttgtg cagtctgata tttacacctt 180
 ggttgatggc tttgtcatcc gcaatccatc cagagcgaat ccagctaacc cttcgattga 240
 gcttggacct gagttcaaga aggttgccaa tttccttgct cggttcaagt ccatccccag 300
 catcgctcag cttgacagct tgaaggtttc tgggtgatgtc tggtttggtt ctggaattac 360
 gctcaagggc aaggtgacaa tcaccgcaa gtctggagtg aagttggagg ttccagatgg 420
 agcttgattt gaaaacaagg atgtcaatgg 450

<210> 1516
 <211> 438
 <212> DNA
 <213> Zea mays
 <400> 1516
 cacacctcct cgcttcact ccgctcgtct gacatctcgt cccgtccttt cgtttcgaag 60
 cctcgcgagc cccgacgatg gccaccgccc cggtgtcggc cgacgagaag ctcgacaagc 120
 ttcgcgccga ggtcgccaag ctcgaccaga tcagcgagaa cgagaagtcc gggttcatca 180
 gcctcgtgtc acgctacctc agtggggaag cggagcagat cgagtggagc aagatccaga 240
 cccctacgga tgagggtgtg gtgccctacg ataccgtcgc gtcgcctccc gaagatctcg 300
 aggagacgaa gaagctgctg gataagctcg ttgtgctcaa gcttaacgga gggctcggga 360
 cgaccatggg ctgcactggg cccaagtctg tcattgaagt ccgcaatggg ttcacattcc 420
 ttgaccttat tgtgattc 438

<210> 1517
 <211> 464
 <212> DNA
 <213> Zea mays
 <220>
 <221> unsure
 <222> (1)..(464)
 <223> unsure at all n locations

<400> 1517

gttccccgct caaggtttct cccagtgaag gctacatctg atctgttgct tgtgcagtct 60
gatctttaca ccttggttga tggctttgtc atccgcaacc catccagagc gaatccagct 120
aacccttcaa ttgagcttgg acctgagttc aagaagggtg ccaatttcct tggtcggttc 180
aagtccatcc ccagcatagt tgagcttgac agcttgaagg tttctggtga tgtctggttt 240
ggctctggaa ttacactcaa gggcaagggtg acaattatcg ccaagcctgg agtgaagttg 300
gagattccag atggagacgt acttgagaac aaggatgtca atggccctga ggatctttaa 360
gcaatgttta tcataccag ttttcccaag gacatgtcac aggaactgcc aagcctaata 420
actcctactg agctctatat tntgtaattt tcatgtgcat tccg 464

<210> 1518

<211> 421

<212> DNA

<213> Zea mays

<400> 1518

acccacgcgt ccgctgacat ctcggtccgt cctttcgttt cgaagcctcg cgagccccga 60
cgatggccac cgccgcggtg tcggtcgacg agaagctcga caagcttcgc gccgaggctcg 120
ccaagctcga ccagatcagc gagaacgaga agtccgggtt catcagcctc gtgtcacgct 180
acctcagtgg ggaagcggag cagatcgagt ggagcaagat ccagaccctt acggatgagg 240
tgggtggtgcc ctacgatacc gtcgcgtcgc ctcccgaaga tctcgaggag acgaagaagc 300
tgctggataa gtcggttggt ctcaagctta acggaggggt cgggacgacc atgggctgca 360
ctgggcccga gtctgtcatt gaagtccgca atgggttcac attccttgac cttattgtga 420
t 421

<210> 1519

<211> 443

<212> DNA

<213> Zea mays

<400> 1519

cccacgcgtc cgccacacca cacctcctcg cttccactcc gtcgtctga catctcgtcc 60
ggtcctttcg tttcgaagcc tcgcgagccc cgacgatggc caccgccgcg gtgtcggtcg 120

acgagaagct cgacaagctt cgcgccgagg tcgccaagct cgaccagatc agcgagaacg 180
agaagtccgg gttcatcagc ctcgtgtcac gctacctcag tggggaagcg gagcagatcg 240
agtggagcaa gatccagacc cctacggatg aggtggtggt gccctacgat accgtcgcgt 300
cgctccccga agatctcgag gagacgaaga agctgctgga taagctcggt gtgctcaagc 360
ttaacggagg gctcgggacg accatggtct gcactgggcc caagtctgtc attgaagtcc 420
gcaatggggtt cacattcctt gac 443

<210> 1520
<211> 319
<212> DNA
<213> Zea mays

<400> 1520

atccttccgg taaacctcgc catctaattg gctcatggca tggagtatgt cttcgttgc 60
aactcggaca gcttggttgc tatagtcgac atcaagatcc tgaaccatct gatcaataac 120
cagaatgaat actgcatgga ggttactcca aaaacattgg ctgatgttaa aggcggtact 180
ctcatctctt acgaaggaag agttcagctt ttggagattg cccaagtacc tgatgagcat 240
gtgaatgagt ttaaataaat cgagaagttt aagatattca acactaaciaa cttgtgggtg 300
aacctttaag ctgtcaaga 319

<210> 1521
<211> 394
<212> DNA
<213> Zea mays

<400> 1521

cccacgcgtc cgcccacgcg tccgcccacg cgtccgcgga cgcgtgggtt tcaatcagag 60
ccagtatcct cgcattgtta ccgaggactt cttgccactt cccagcaaag ggaaatctgg 120
gaaggatggc tggatcctc ctggtcatgg tgatgtgttt ccctctttga ataacagcgg 180
aaaacttgac atcttattgg ctcagggcaa agagtatgtc tttgttgcaa actcagacaa 240
cttgggtgct atagtcgaca tcaagatcct aaaccatctg atcaataacc agaacgagta 300
ctgcatggag gttactccaa agacgctggc tgacgttaag ggtggcactc tcatctctta 360
cgaaggaaga gttcagcttt tggagattgc ccaa 394

<210> 1522
 <211> 400
 <212> DNA
 <213> Zea mays

<400> 1522

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cccacgcgtc cggcccaagt acctgatgag catgtgaatg agtttaaate aatcgagaag 60
ttaaagatat tcaacactaa caacttgtgg gtgaacctta aagctgtcaa gagactagta 120
gaggctgagg cacttaagat ggaaattatt ccaaacccca aggaagttga tgggtgtgaaa 180
gtccttcaac ttgaaactgc agctgggtgca gctattcggt tctttgacaa agcgattgga 240
attaatgttc cccgctcaag atttctcccg gtgaaggcta catctgattt attgcttgtg 300
cagtctgata ttacacctt ggttgatggc ttgtcatcc gcaatccatc cagagcgaat 360
ccagctaacc cttcgattga gcttggacct gagttcaaga 400
```

<210> 1523
 <211> 419
 <212> DNA
 <213> Zea mays

<400> 1523

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cacctcctcg cttgcactcc gctcgtctga catctcgtcc cgtcctttcg tttcgaaggg 60
tcgggagccc cgacgatggc caccaccgcg gtgtcgggtc acgagaagct cgataagctt 120
cgcgcgcgagg tcgccaagct cgaccagatc agcgagaacg agaagtccgg gttcatcagc 180
ctcgtgtcac ggtacctcag tggggaggcg gagcagatcg agtggagcaa gatccagacc 240
cctacggatg aagtgggtgg gccctacgat accgtcgcgt cgcctcccgga agatctcgag 300
gagacgaaga agctgctgga taagctcggt gtgtcaagc ttaacggagg gctcgggacg 360
accatgggct gcactgggcc caagtctgtc attgaagtcc gcaatggggt cacattcct 419
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<210> 1524
 <211> 408
 <212> DNA
 <213> Zea mays

<400> 1524

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tgttacgcgt tcaaggcatc tcccagcgaa ggctacatct gatctgctgc ttgtgcaggc 60
```


tgatctttac accgtggttg atggctttgt catccgcaac ccatgcagag cgaatccagc 120
 taacccttca attgagcttg gacctgagtt caagaagggt gccaatctac ttggtcggtt 180
 caagtccatc cccagcatag ttgagcttga cagcttgaag gtttctggtg atgtctggtt 240
 tggctctgga attacactca agggcaagggt gacaattatc gccaaacctg tagtgaagtt 300
 ggagattcca gatggagacg tacttgagaa caaggatgtc aatggtcctg aggatctata 360
 agcaatgggtt atcatcacca ggttttccaa ggacatgtta cagggact 408

<210> 1525
 <211> 358
 <212> DNA
 <213> Zea mays

<400> 1525

ctgcgattgt taccgaggac ttcttgccac ttcccagcaa agggaaatct gggaaggatg 60
 gctggtatcc tctggtcat ggtgatgtgt ttccttcttt gaataacagc ggaaaacttg 120
 acatcttatt ggctcagggc aaggagtatg tctttgttgc aaactcagac aacttgggtg 180
 ctatagtcga catcaagatc ctaaaccatc tgatcaataa ccagaacgag tactgcatgg 240
 aggttactcc aaagacgctg gctgacgtta aggggtggcac tctcatctct tacgaaggaa 300
 gagttcagct tttggagatt gcccaaagtc cccgatgaag catgtgaatg gaattaaa 358

<210> 1526
 <211> 349
 <212> DNA
 <213> Zea mays

<400> 1526

ccgtcctttc ctttctgagg ctgcgcaacc ccgacaatgg ccgcaaccgc ggtgtctgtc 60
 gacgagaagc tcgacaagct tcgcgccgag gtcgccaaac tcagccagat cagcgagaac 120
 gagaaggccg gggtcatcag cctcgtgtca cgctacctca gtggggaggc ggagcagatc 180
 gagtggagca agatccagac cccgaccgat gaggtagtgg tgccgtacga taccctcacg 240
 tcgcctcctg aagatctcga ggagacgaag aagctgctgg acaagctcgt tgtgctcaag 300
 ctcaacggag ggctcgggac gaccatgggc tgcaccggac ccaagtctg 349

<210> 1527
 <211> 439
 <212> DNA
 <213> Zea mays

<220>
 <221> unsure
 <222> (1)..(439)
 <223> unsure at all n locations

<400> 1527

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cccacgcgtc cgatgatctg gtgctcgtgc aggctgatct ttacaccttg gatgatggct 60
ttgtcatccg caacccatcc agagcgaatc cagctaaccc ttcaattgag cttggacctg 120
agttcaagaa ggttgccaat ttccttggtc ggttcaagtc catccccagc atagttgagc 180
ttgacagctt gaaggtttct ggtgatgtct ggtttggctc tggaattaca ctcaagggca 240
aggtgacaat tatcgtcaag cctggagtga agttggagat tccagatgga gacgtacttg 300
agaacaagga tgtcaatggc cctgaggatc ttaagcaat gtgtatcatc accagttgtc 360
ccaaggacat gtcacatgaa ctgtcaagcc taatcactcc tactgagctc tatantttgt 420
aatgttcatg tgcattccg 439
  
```

<210> 1528
 <211> 373
 <212> DNA
 <213> Zea mays

<400> 1528

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aattaatggt ccccgctcaa gatttctccc ggtgaaggct acatctgatt tattgcttgt 60
gcagtctgat ctttacacct tggttgatgg ctttgtcatc cgcaatccat ccagagcgaa 120
tccagctaac ccttcgattg agcttggacc tgagttcaag aaggttgcca atttccttgc 180
tcggttcaag tccatcccca gcatcgtcga gcttgacagc ttgaagggtt ctgggtgatgt 240
ctggtttggt tctggaatta cgctcaaggg caaggtgaca atcacctca agtctggagt 300
gaagttggag gttccagatg gagctgtatt tgaaaacaag gatgtcaatg gccctgagga 360
tccttaagct atg 373
  
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<210> 1529
 <211> 392
 <212> DNA

<213> Zea mays
 <400> 1529

caaattcata ctttcaatca gagccagtat cctcgcatg ttaccgagga cttcttgcca 60
 cttcccagca aagggaatc tgggaaggat ggctggatc ctctgggtca tggatgatg 120
 tttccctctt tgaataacag cggaaaactt gacatcttat tggctcaggg caaagagtat 180
 gtctttgttg caaactcaga caacttgggt gctatagtcg acatcaagat cctaaaccat 240
 ctgatcaata accagaacga gtactgcatg gaagttactc caaagacgct ggctgacgtt 300
 aaaggtggca ctctcatctc ttacgaaagg aagagttcag ctttttggag attgccaag 360
 taccgatga gcatgtgaat gaatttaaat ca 392

<210> 1530
 <211> 407
 <212> DNA
 <213> Zea mays
 <400> 1530

cacaccacac cacacctgct cgcttccact ccgctcgtct gacatctcgt cccgctcgtt 60
 cgtttcgaag cctcgcgagc cccgacgatg gccaccgccg cgggtgcggt cgacgagaag 120
 ctcgacaagc ttcgcgccga ggtcgccaag ctcgaccaga tcagcgagaa cgagaagtcc 180
 gggttcatca gctcgtgtc acgctacctc agtggggaag cggagcagat cgagtggagc 240
 aagatccaga cccctacgga tgaggtgggt gtgccctacg ataccgtcgc gtagcctccc 300
 gaagatctcg aggagacgaa gaagctgctg gataagctcg ttgtgctcaa gcttaacgga 360
 gggctcggga cgaccatggg ctgcactggg cccaagtatg tcattga 407

<210> 1531
 <211> 407
 <212> DNA
 <213> Zea mays
 <400> 1531

agcttttggga gattgcccga gtacccgatg agcatgtatg ttgctgttct tgtgtggctt 60
 aagtttcata atctgttcca tgatttcacc accagccttt tgtagtaaga gctacacaac 120
 cttttctaata tttcttgat ctctatccag gtgaatgaat ttaaataat cgagaagttt 180

aagatattca acactaaciaa cttgtgggtg aaccttaaag ctatcaagag actcgtagag 240
gctgaggcac ttaagatgga aattattcca aaccccaagg aagttgatgg tgtgaaagtc 300
cttcaactcg aaaccgcagc tgggtgcagct attcggttct tcgacaaagc gattggaatt 360
aatgttcccc gctcaaagtt tctcccagtg aaggctacat ctgatct 407

<210> 1532
<211> 460
<212> DNA
<213> Zea mays

<400> 1532

gtagctgcag tgcggtcgta gatcacgggt ccacgcacgc gtccgaatgg cattgtcatc 60
cgcaacccat ccagagcgaa tccagctaac ctttcaattg agcttgacc tgagttcaag 120
aaggttgcca atttccttgc tcggttcaag tccatcccca gcatagttga gcttgacagc 180
ttgaaggttt ctggtgatgt ctggtttggc tctggaatta cactcaaggg caatgtgaca 240
attatcgcca agcctggagt gaagttggag attccagatg gagacgtact tgagaacaag 300
gatgtcaatg ggcctgagga tctttaagca atgtctgtca tcaccagttt ttcccaagga 360
catgtcacag gaactgccga gcctaatac tctactgag ctctatattt ttgtaatttt 420
catgtgcatt ccgattccgc tgcgagggtc atgtgagccc 460

<210> 1533
<211> 257
<212> DNA
<213> Zea mays

<400> 1533

gtttaagata ttcaacacta acaacttgtg ggtgaacott aaagctatca agagactcgt 60
agaggctgag gcacttaaga tggaaattat tccaaacccc aaggaagttg atgggtgtgaa 120
agtccttcaa ctcgaaaccg cagctgggtgc agctattcgg ttcttcgaca aagcgattgg 180
aattaatggt ccccgctcaa gggtttctccc aatgaaggct acatctgac tgatgcttgt 240
gcagtctgat ctttaca 257

<210> 1534
<211> 378
<212> DNA

<213> Zea mays

<400> 1534

aacccacgcg tccgcccacg cgtccgcaca cacaccacac cacacctcct cgctttccact 60

ccgctcgtct gacatctcgt cccgtccttt cgttttogaag cctcgcgagc cccgacgatg 120

gccaccgccg cgggtgctggg cgacgagaag ctgcacaagc ttcgcgccga ggctcgccaag 180

ctcgaccaga tcaggcgagt gccccctcc tctccgcact agatctcgcc gcccgatcgc 240

ttcgcctccc atttttgctg atttctgagt gtgtttttcc gcgcagcgag aacgagaagt 300

ccgggttcat cagcctcgtg tcacgctacc tcagtgggga agcggagcag atcgagtgga 360

gcaagatcca gacccta 378

<210> 1535

<211> 60

<212> DNA

<213> Zea mays

<400> 1535

aatggaatta aaggtccccg gttaagaatt cttcccgatga atgcttcctt cgaattaatg 60

<210> 1536

<211> 342

<212> DNA

<213> Zea mays

<400> 1536

aagaattaca ctcaagggca aggtgacaat tatcgccaag cctggagtga agttggagat 60

tccagatgga gacgtacttg agaacaagga tgtcaatggc cctgaggatc ttttaagcaat 120

gtttgtcatc accagttttt cccaaggaca tgtcacagga actgccaagc ctagtcactc 180

ctactgagct ctatatatttg taattttcat gtgcattccg attccgctgt gaggggtcatg 240

ttaaccccgc tagaaaataa ttgtaatctt ctttgcgtgcg tctgtacttc tgtttttggt 300

cgccaggacg tatattttta ctgaaatgat actccgaaga gc 342

<210> 1537

<211> 443

<212> DNA

<213> Zea mays

<400> 1537

ctcaagggca aggtgacaat tatcgccaag cctggagtga agttggagat tccagatgga 60
gacgtacttg agaacaagga tgtcaatggc cctgaggatc ttttaagcaat gtttatcatc 120
accagttttc ccaaggacat gtcacaggaa ctgccaagcc taatcactcc tactgagctc 180
tatattttgt aattttcatg tgcattccga ttccgctgtg agggatcatgt gagcccgcta 240
gagaataatt gtaatcttct ttgctgcgtc tgtacttctg tttttgtgcg ccaggacgta 300
tatttttact gaaatgatac tccgtaatat attataatac ttgttttata ttatttttat 360
tgtttttatt atattattat gtttttttta tgtttttata atttattttt tttttatatt 420
atttttttat aattttttta ttt 443

<210> 1538

<211> 229

<212> DNA

<213> Glycine max

<400> 1538

ggccgcacag cccgatgttg atggattttt ggttggtggt gccaatctct tgcagtttcc 60
tccatttaca gaacctccat agataattct tacagatgca gcaactgcaa agaattggcc 120
gcacagcccg atgttgatga tttttggttg gtggtgcctc cctgaagccg gagttcgtgg 180
acatcataaa tgctgccact gtgaagaaga attgaaattc gtagttagg 229

<210> 1539

<211> 267

<212> DNA

<213> Glycine max

<220>

<221> unsure

<222> (1)..(267)

<223> unsure at all n locations

<400> 1539

ggmntngagg ttgnacaagg gtanctctgt ctgcttctac aatttctctc gtnaccaata 60
gaaanncaaa acnanaacat gggcagaaaa ttcttcgncg gtggcaantg ganattgaan 120
gggancaatg aggaggtaaa gnagattgtn antactttga atgaggctaa agtnngctgna 180
gangatgtng tagaagttgt tgtgagaccn ctttatgtgt tccnnncatn gnaanaagtt 240

tgctgcanct gnttnccatg tttcggc

267

<210> 1540
<211> 265
<212> DNA
<213> Glycine max

<400> 1540

tgggaccaa gactccatca gaaagcttgt ctctgacttg aacagtgcaa cattggagtc 60
tgatgttgat gttgttgttg cacctccttt tgtgtacatc gatcaggtga aaaactcaat 120
tacagatagg attgaaattt ctgcccagaa ttcttgggtg ggaaaagggtg gggctttcac 180
gggagaaatc agtgtggagc aactaaaaga ccttggctgc aagtgggtta ttcttggaca 240
ttctgagcga agacatgtaa ttgga 265

<210> 1541
<211> 259
<212> DNA
<213> Glycine max

<400> 1541

ggcaactgga agtgtaacgc aacaaaagac tcaatcagca agcttgttgc tgacttgaac 60
aatgcaaaat tggagcctga tgttgatgtt gtcgttgacac ctcccttcct ctacatcgat 120
caagtgaaaa actcactcac tgagcggctt gacatatctg ccagaattc ttgggttgga 180
aaagggtggtg cttttactgg agaaatcagc gcggaacaac taaacgatct tggatgcacg 240
tggttgttgc ttggacatt 259

<210> 1542
<211> 245
<212> DNA
<213> Glycine max

<400> 1542

gcaacctcaa catccctctt ctctcaaat ctccattctc tcaactcaca gcctttctct 60
tcctcactct ccttcttcctg aaatgtccat tccacctctc ctttccttc ttctaaacct 120
tcccgtggcg ttgtagccat ggctggctct ggcaagttct ttgttgggtg caattggaag 180
tgtaatggga ccaaagactc catcagaaaag cttgtctctg acttgaacag tgcaacattg 240

gagtc 245

<210> 1543
 <211> 283
 <212> DNA
 <213> Glycine max
 <400> 1543

agatgcacca ctctttcttc ttcaatcaat ggcagcaacc tcaacatccc tcttctcctc 60
 aaatctccat tctctcaact cacaaccttt ctcttctca ctctccttct tctgaaatgt 120
 ccattccacc ctctctttcc cttcttctaa accctcccggt ggcgtttagt ccatggctgg 180
 ctctggcaag ttctttgttg gtggcaattg gaagtgtaat gggaccaaag actccatcag 240
 aaagcttgct tctgacttga acagtgaac attggagtct gat 283

<210> 1544
 <211> 249
 <212> DNA
 <213> Glycine max
 <400> 1544

ctcgagccgc ttcaatcaat ggcagcaacc tcaacatccc tcttctcctc atatctccat 60
 tctctcaact cataaccttt ctcttctca ctctccttcc gaaatgtcca ttccactctc 120
 tctttccctt cttctaaacc ctctcgtggc gttgtagcca tggctggctc tggcaagtgc 180
 tttgatggtg gcaattggaa gtgtaatggt accaaagact ccatcagaca gcttgtctct 240
 gttttgaac 249

<210> 1545
 <211> 278
 <212> DNA
 <213> Glycine max

<220>
 <221> unsure
 <222> (1)..(278)
 <223> unsure at all n locations
 <400> 1545

cattcctagg taccatttgc accactcttt cttcttcaat caatggcagc aacctcaaca 60

tccctcttct cctacaaatc tccattctct caactcacia ctttctctt cctcactctc 120
cttnagccng tccattccac cctctctnnc anaacantct aaacctccc gtggcggtgt 180
agccatggct ggctctggca agtncttctg tgggtggcaat tggaagtgtg atgggaccaa 240
agactccatc agaaagttgt ctctggattg aacaggca 278

<210> 1546
<211> 268
<212> DNA
<213> Glycine max

<400> 1546

attcaatcca agcttagatt gttttactgt tacaccattc ctaggtacca tttgcaccac 60
tctttcttct tcaatcaatg gcagcaacct caacatccct cttctcctca aatctccatt 120
ctctcaactc acaacctttc tcctcctcac tctccttctt ccgaaatgtc cattccaccc 180
tctctttccc ttcttataaa cctctccgtg gcgttgtagc catggctggc tctggcaagt 240
tctttgttgg tggcaattgg aagtgtaa 268

<210> 1547
<211> 289
<212> DNA
<213> Glycine max

<400> 1547

aaatttctgc ccagaattct tgggtgggaa aaggtggggc tttcacggga gaaatcagt 60
tggagcaact aaaagacctt ggctgcaagt gggttattct tggacattct gagcgaagac 120
atgtaattgg agaaaatgat gagtttatag gaaagaaaac tgcctatgct ttgagtgagg 180
gtcttgggtg gatagcatgt attggggaac ttctacaaga aagagaagct ggtcaaactt 240
tcgacatttg tttccagcaa ttgaaggctt ttgcagatgc agtgccaag 289

<210> 1548
<211> 270
<212> DNA
<213> Glycine max

<400> 1548

gaaatttctg ccagaattc ttgggtggga aaaggtgggg ctttcacggg agaaatcagt 60

gtggagcaac taaaagacct tggctgcaag tgggttattc ttggacattc tgagcgaaga 120
catgtaattg gagaaaatga tgagtttata gggaagaagg ctgtctatgc tttgagtga 180
ggcttaggtg tgatagcatg tattggggaa ctgttacaag aaagagaagc tgggaaaact 240
ttcgatgttt gttttcagca attgaaggct 270

<210> 1549
<211> 281
<212> DNA
<213> Glycine max

<400> 1549

gtgaaaaact cactcactga gcggattgaa aatctgccca gaattcttgg gttggaaaag 60
gtggtgctct tactggagaa atcagcgcgg aacaactaaa agatcttggg tgcaagtggg 120
ttgttcttgg acattctgag cgaagacatg ttattggaga aaatgatgag tttatagggg 180
cgaaagctgc ctatgctttg agccaaggctc ttgggggtgat tgcattgcatt ggagaattgt 240
tagaagaaag ggaggctgga aaaacttttg atgtttgttt t 281

<210> 1550
<211> 223
<212> DNA
<213> Glycine max

<400> 1550

acggctgcga gaagacgaca gaagggtgga aaagggtggtg cttttactgg agaaatcagc 60
gcggaacaac taaaagatct tggatgcaag tgggttggtc ttggacattc tgagcgaaga 120
catgttattg gagaaaatga tgagtttata gggaagaaaag ctgcctatgc tttgagccaa 180
ggctctgggg tgattgcatg cattggagaa ttgttagaag aca 223

<210> 1551
<211> 170
<212> DNA
<213> Glycine max

<220>
<221> unsure
<222> (1)..(170)
<223> unsure at all n locations

<400> 1551

cactgagcgg attgaaatat ctgcccagaa ttcttgggtt ggaaaaggtg gtgcttttac 60
 tggagaaatc agcgcggaac aactaaaaga tcttggatgc aagtnggttg ttcttggaca 120
 ttctnagcga agacatgtta ttgngaaaa tgatgagttt atagggaaga 170

<210> 1552
 <211> 355
 <212> DNA
 <213> Glycine max

<220>
 <221> unsure
 <222> (1)..(355)
 <223> unsure at all n locations

<400> 1552

gtttcggcac aaaactgttg ggttcgcaaa ggtggtgctt ataccggtga ggttagtgct 60
 gtcattgcttg ttaatttggg aattccttgg gttattattg gtcactctga acggaggcag 120
 cttttaaatg aatcaaacga gtttgtggga gataaagttg cctatgcact tcaacaaggt 180
 ctaaaagtta ttgcatgcat tggggagact ctggaacagc gtgaagctgg tacaacaacg 240
 gctgttgttt ctgagcaaac aaaagcaatt gcagctanaa tatcaaattg ggacaatgtt 300
 gtcttggcct acgagccagt ttggggcatt ggaacaggaa aggttgctac tcctg 355

<210> 1553
 <211> 275
 <212> DNA
 <213> Glycine max

<220>
 <221> unsure
 <222> (1)..(275)
 <223> unsure at all n locations

<400> 1553

gagcaaacia aagcaattgc agctaaaatn tcaaattggg acaatgtcgt tttggcctat 60
 gagccagttt gggccatttg aacaggaaaag gttgcaactc ctgctcaggc tcaagagggt 120
 catgctgatt taaggaaatg ggttcatgac aatgtgagtg ctgaagttgc tgcattctga 180
 agaattatct atggaggctc tgtaaattga ggaaactgca aagaattggc agcacagccc 240
 gatgttgatg gatttttggg tggtgggtgca tcctt 275

<210> 1554
 <211> 268
 <212> DNA
 <213> Glycine max

<400> 1554

gtgggagata aagttgccta tgcacttcaa caaggtctaa aagttattgc atgcattggg 60
 gagactctcg aacagcgtga agctggtaca acaacggctg ttgtttctga gcaaacaaaa 120
 gcaattgcag ctaaaatata aaattgggac aatgtcgttt tggcctacga gccagtttgg 180
 gccattggaa caggaaaggt tgctactcct gctcaggctc aagaggtcca tgctgatttg 240
 aggaaatggg ttcatgacaa tgtgagtg 268

<210> 1555
 <211> 264
 <212> DNA
 <213> Glycine max

<400> 1555

gtgggagata aagttgccta tgcacttcaa caaggtctga aagttatagc atgcattggg 60
 gaaactcttg aacagcgtga agctggtaca acaacggctg ttgttgctga gcaaacaaaa 120
 gcaattgcag ctaaaatata aaattgggac aatgtcgttt tggcctatga gccagtttgg 180
 gccattggaa caggaaaggt tgcaactcct gctcaggctc aagaggttca tgctgattta 240
 aggaaatggg ttcatgacaa tgtg 264

<210> 1556
 <211> 256
 <212> DNA
 <213> Glycine max

<400> 1556

catgcattgg ggacactctt gaacagcgtg aagctggtac aacaacggct gttgttgctg 60
 agcaaacaaa agcaattgca gctaaaatat caaattggga caatgtcggt ttggcctatg 120
 agccagtttg ggccattgga acaggaaagg ttgcaactcc tgctcaggct caagaggttc 180
 atgctgattt aaggaaatgg gttcatgaca atgtgagtgc tgaaattgct gcatctgtaa 240
 gaattatcta tggagg 256

<210> 1557
 <211> 270
 <212> DNA
 <213> Glycine max

<400> 1557

gtccctggag aagatgttgt agaagttgtt gtgagccctc cttttgtgtt ccttcctttt 60
 gtaaaaagtt tgctgcgccc tgatttccat gtctcggccc aaaattgttg ggttcgcaaa 120
 ggtggtgctt atactggagt cgtagtgct gaaatgcttg ttaatttggg aattccttgg 180
 gttattattg gtcactctga acggaggcag cttttgaatg aatcaaatga gtttgtggga 240
 gataaagttg cctatgcact tcaacaaggt 270

<210> 1558
 <211> 264
 <212> DNA
 <213> Glycine max

<400> 1558

cggagataaa gttgcctatg cacttcaaca aggtctaaca gttattgcat gcattgggga 60
 gactctcgaa cagcgtgaag ctggtacaac aacggctgtt gtttctgagc aaacaaaagc 120
 aattgcagct aaaatatcaa attgggacaa tgttgttttg gcctacgagc cagtttgggc 180
 cattggcaca ggaaaggttg ctactcctgc tcaggctcaa gaggtccatg ctgatctgag 240
 gaaatggggt catgacaatg tgag 264

<210> 1559
 <211> 258
 <212> DNA
 <213> Glycine max

<220>
 <221> unsure
 <222> (1)..(258)
 <223> unsure at all n locations

<400> 1559

gcattgggga gactctcgaa cagcgtgaag ctggtacaac aacggctgtt gtttctgagc 60
 aaacaaaagc aattgcagct aaaatatcaa attgggacaa tgctgttttg gcctacgagc 120

cagtttgngc cattggaaca ggaaagnttg ctactcctgc tcaggctcaa gaggtccatg 180
 cggatttgag gaaatggggt catgacaatg tgagtgctga agttgctgca tcggtaanat 240
 ttatctangg aggtctgt 258

<210> 1560
 <211> 278
 <212> DNA
 <213> Glycine max

<400> 1560

tgcttatact ggagaggtta gtgctgaaat gcttggttaat ttgggaattc cttgggttat 60
 tattggtcac tctgaacgga ggcagctttt gaatgaatca aatgagtttg tgggagataa 120
 agttgcctat gcacttcaac aaggtctgaa agttatagca tgcattgggg aaactcttga 180
 acagcgtgaa gctggtacaa caacggctgt tgttgctgag caaacaaaag caattgcagc 240
 taaaatatca aattgggaca atgtcgtttt ggcctatg 278

<210> 1561
 <211> 278
 <212> DNA
 <213> Glycine max

<400> 1561

ctcgtttcaa tcgaaaccaa aacaaaaaca tgggcagaaa attcttcgtc ggtggcaact 60
 ggaaatgcaa tgggaccact gaggaggtaa agaagattgt tactactttg aatgaggcta 120
 aagtccttg agaagatgtc gtagaagttg ttgtgagccc tccttttgtg ttccttcctg 180
 ttgtaaaaag tttgctgcg cctgatttcc atgtttcggc acaaaactgt tgggttcgca 240
 aaggtggtgc ttataccggt gaggttagtg ctgaaatg 278

<210> 1562
 <211> 272
 <212> DNA
 <213> Glycine max

<400> 1562

aaaacaaaa catgggcaga aaattcttcg tcggtggcaa ctggaaatgc aatgggacca 60
 ctgaggaggt aaagaagatt gttactactt tgaatgaggc taaagtcctt ggagaagatg 120

tcgtagaagt tgttgtgagc cctccttttg tgttccttcc tgttgtaaaa agtttgctgc 180
gccctgattt ccatgtttcg gcaaaactgt tgggttcgca aaggtggtgc ttataccggt 240
gaggttagtg ctgaaatgct tgttaatttg gg 272

<210> 1563
<211> 264
<212> DNA
<213> Glycine max

<400> 1563

tacggctgcg agaagacgac agaaggggaa gttgttgtga gccctccttt tgtgttcctt 60
cctgttgtaa aaagtttgct gcgcctgat ttccatgttt cggcacaaaa ctgttggggt 120
cgcaaagggtg gtgcttatac cggtgagggt agtgctgaaa tgcttgtaa tttgggaatt 180
ccttgggtta ttattggtca ctctgaacgg aggcagcttt taaatgaatc aaacgagttt 240
gtgggagata aagttgccta tgca 264

<210> 1564
<211> 257
<212> DNA
<213> Glycine max

<400> 1564

ctcgagccgg ttgcaactcc tgctcaggct caagagggtc atgctgattt aaggaaatgg 60
actcatgaca atgtgagtgc tgaagttgct gcacatgtaa gaattatcta tggaggctct 120
gtaaatggag gaaactgcaa agaattggca gcacagcccg atgttgatgg atttttggtt 180
ggtgtggcat ccctcaaggc ggaatttgtg gacatcataa acgctgctac tgtgaagaag 240
aattgaaatt cgtagtt 257

<210> 1565
<211> 283
<212> DNA
<213> Glycine max

<400> 1565

cttcactttc tctcgtttca atcgaaaaaa atcatgggca gaaaattctt cgtcgggtggc 60
aactggaaat gcaatgggac cactgaggag gtgaagaaga ttgttactac tttaaataaa 120

gctaaagtcc ctggagaaga tggtgtagaa gttgttgtga gccctccttt tgtgttcctt 180
 ccttttgtaa aaagtttgct ggcacctgat ttccatgtct cggcccaaaa ttgttgggtt 240
 cgcaaagggtg gtgcttatac tggagatgtt agtgctgaaa tgc 283

<210> 1566
 <211> 256
 <212> DNA
 <213> Glycine max

<220>
 <221> unsure
 <222> (1)..(256)
 <223> unsure at all n locations

<400> 1566

aaaaaatcat gggcagaaaa ttcttcgtcg gtggtcaact ggaaatgcaa tgggaccact 60
 gaggaggtga agnagattgt tactacttta aatgaagcta aagtccttgg agaagatgtt 120
 gtagaagttg ttgtgagccc tccttttgtg ttccttcctt ttgtaaaaag tttgctgcgc 180
 cctgatttcc atgtctcggc ccaaanttgt tgggttcgca aaggtggtgc ttatactgga 240
 gangntagtg ctgaaa 256

<210> 1567
 <211> 262
 <212> DNA
 <213> Glycine max

<400> 1567

gtaaaaaatc atgggcagaa aattcttcgt cgggtggcaac tggaaatgca atgggaccac 60
 tgaggaggtg aagaagattg ttactacttt aaatgaagct aaagtccttg gagaagatgt 120
 tgtagaagtt gttgtgagcc ctcttttgtg gttccttcct tttgtaaaaa gtttgctgcg 180
 ccctgatttc catgtctcgg cccaaaattg ttgggttcgc aaaggtggtg cttatactgg 240
 agaggttagt gctgaaatgc tt 262

<210> 1568
 <211> 266
 <212> DNA
 <213> Glycine max

<400> 1568

gtctgcttct tcactttctc tcgtttcaat cgaaaaaat catgggcaga aaattcttcg 60
 tcggtggcaa ctggaaatgc aatgggacca ctgaggaggt gaagaagatt gttactactt 120
 taaatgaagc taaagtcctt ggagaagatg ttgtagaagt tgttgtgagc cctccttctg 180
 tgttccttcc ttttgtaaaa agtttgctgc gccctgattt ccatgtctcg gcccaaaatt 240
 gttgggttcg caaaggtggt gcttat 266

<210> 1569
 <211> 281
 <212> DNA
 <213> Glycine max

<220> .
 <221> unsure
 <222> (1)..(281)
 <223> unsure at all n locations

<400> 1569

gtagaagttg ttgtgagccc tccttttctg ttccttnctt ttgtaaaaag tttgctgcgc 60
 cctgatttcc atgtctcggc ccaaaattgt tgggttcgca aagggtggtgc ttatactgga 120
 gaggttagtg ctgaaatgct tgtnaatttg ggaattcctg gggtattatt gggtcactctg 180
 aacggaggca gcttttgaat gaatcaaatg agtttggtggg nccataaagt tgcctatgca 240
 cttcaacaag gtctgaaatt atagcatgca ttgggccaac c 281

<210> 1570
 <211> 284
 <212> DNA
 <213> Glycine max

<400> 1570

atcttcactt tctctcgttt caatcgaaac caaaacaaaa acatgggcag aaaattcttc 60
 gtcggtggca actggaaatg caatgggacc actgaggagg taaagaagat tggtactact 120
 ttgaatgagg ctaaagtccc tggagaagat gtcgtagaag ttgttgtag cctccttttt 180
 gtgttccttc ctgttgtaaa aagtttgctg cgccctgatt tccatgtttc ggcacaaaac 240
 tgttgggttc gcaaaggtgg tgcttatacc ggtgagggtta gtgc 284

<210> 1571

<211> 262
 <212> DNA
 <213> Glycine max

<400> 1571

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gcttcttcac tttctctcgt ttcaatcgaa accaaaacaa aaacatgggc agaaaattct 60
tcgtcggtgg caactggaaa tgcaatggga ccaactgagga ggtaaagaag attgttacta 120
ctttgaatga ggctaaagtc cctggagaag atgtcgtaga agttgttggt agccctcctt 180
ttgtgttcct tctgttgta aaaagtttgc tgcgcctga tttccatgtt tcggcacaaa 240
actgttgggt tcgcaaaggt gg 262
```

<210> 1572
 <211> 274
 <212> DNA
 <213> Glycine max

<220>
 <221> unsure
 <222> (1)..(274)
 <223> unsure at all n locations

<400> 1572

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ctctttctct gtctgcttct tcaactttctc tcgtttcaat cgaaaaaat catgggcaga 60
aaattcttcg tcggtggcaa ctggaaatgc aatgggacca ctgaggaggt gaagaagatt 120
gttactactt taaatgaagc taaagtcctt ggagaagatg ttgtagaagt tggtgtgagc 180
cntccttttg tggtccttcc ttttgtaaaa agtttgetgc gccctgattt ccatgtctcg 240
gcccaaaatt gttgggttcg caaagtgggtg ctta 274
```

<210> 1573
 <211> 253
 <212> DNA
 <213> Glycine max

<400> 1573

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cactttctct cgtttcaatc gaaaaaaatc atgggcagaa aattcttcgt cgggtggcaac 60
tggaatgca atgggaccac tgaggaggtg aagaagattg ttactacttt aaatgaagta 120
aagtccttg agaagatgtt gtagaagttg ttgtgagccc tccttttggt ttccttcctt 180
ttgtaaaaag tttgtgcgc cctgatttcc atgtctcggc ccaaaattgt tgggttcgca 240
```

aagggtggtgc tta 253

<210> 1574
 <211> 284
 <212> DNA
 <213> Glycine max
 <400> 1574

aagggtttct cttctctttc tctgtctgct tcttcacttt ctctcgtttc aatcgaaaaa 60
 aatcatgggc agaaaattct tcgtcgggtg caactggaaa tgcaattggg aactgagga 120
 ggtgaagaag attgttacta ctttaaata agctaaagtc cctggagaag atgtttaga 180
 agttgttgag agccctcctt ttgtgttctt tccttttgta aaacgtttgc tgcgccctga 240
 tttccatgtc tcggcccaaa attgttgggt tcgcaaagggt ggtg 284

<210> 1575
 <211> 278
 <212> DNA
 <213> Glycine max
 <400> 1575

gcttcttcac tttctctcgt ttcaatcgaa agcaaaacaa aaacatgggc agaaaattct 60
 tcgtcgggtg caactggaaa tgcaatggga cactgagga ggtaaagaag attgttacta 120
 ctttgaatga ggctaaagtc cctggagaag atgtcgtaga agttgttgag agccctcctt 180
 ttgtgttctt tcctgttgta aaaagtttgc tggcgccctg atttccatgt ttccgcacaa 240
 aactgttggg ttcgcaaagg tgggtgcttat accggtga 278

<210> 1576
 <211> 271
 <212> DNA
 <213> Glycine max
 <400> 1576

aagggtttct ctttctcttt ctctgtctgc ttcttcactt ctctcgttt caatcgaaaa 60
 aatcatggg cagaaaattc ttctcgggtg gcaactggaa atgcaatggg accactgagg 120
 aggtgaagaa gattgttact actttaaatg aagctaaagt ccctggagaa gatgtttag 180
 aagttgttg gagccctcct ttgtgttctt tccttttggt aaaaagtttg ctgcgccctg 240

atttccatgt ctcggcccaa aattgttggg t 271

<210> 1577
<211> 263
<212> DNA
<213> Glycine max

<400> 1577

gtttctctgt ctgcttcttc actttctctc gtttcaatcg aaacaaaaac aaaaacatgg 60
gcagaaaatt cttcgctcggg ggcaactgga aatgcaatgg gaccactgag gaggtaaaga 120
agattgttac tactttgaat gaggctaaag tccctggaga agatgtcgtga gaagttgttg 180
tgagccctcc ttttgtgttc cttcctgttg taaaaagttt gctgcgccct gatttccatg 240
tttcggcaca aaactgttgg gtt 263

<210> 1578
<211> 285
<212> DNA
<213> Glycine max

<400> 1578

ctcgagccgg ttgaacaagg gtttctctgt ctgcttcttc actttctctc gtttcaatac 60
gcaacaaaaa caaaaacatg ggcagaaaat tcttcgctcg tggcaactgg aaatgcaatg 120
ggaccactga ggaggtaaag aagattgtta ctactttgaa tgaggctaaa gtccctggag 180
aagatgtcgt agaagttgtt gtgagccctc cttttgtgtt cttcctgtt gtaaaaagtt 240
tgctgcgcc tgatttccat gtttcggcac aaaactgttg ggtcg 285

<210> 1579
<211> 269
<212> DNA
<213> Glycine max

<400> 1579

aagggtttct ctgtctgctt cttcactttc tctcgtttca atcgaaacca aaacaaaaac 60
atgggcagaa aattcttcgt cgggtggcaac tggaaatgca atgggaccac tgaggaggta 120
aagaagattg ttactacttt gaatgaggct aaagtccttg gagaagatgt cgtagaagtt 180
gttgtagacc ctcttttgt gttccttcct gttgtaaaaa gtttgctgcg ccctgatttc 240

catgtttcgg cacaaaactg ttgggttcg 269

<210> 1580
 <211> 253
 <212> DNA
 <213> Glycine max
 <400> 1580

gcactttctc tcgtttcaat cgaaaccaa ctccaaacgt gggcagaaaa ttcttcgtcg 60
 gtggcaactg gaaatgccct gggaccactg aggaggtaaa gaagattggt actactttga 120
 atgaggctaa agtccttgga gaagatgtcg tagaagttgt tgtgagccct ccttttgtgt 180
 tccttcctgt tgtaaaaagt ttgctgcgcc ctgatttcca tgtttcggca caaaactggt 240
 gggttcgcaa agg 253

<210> 1581
 <211> 253
 <212> DNA
 <213> Glycine max
 <400> 1581

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 agaagatggt gtagaagttg ttgtgagccc tccttttgtg ttccttcctt ttgtaaaaag 180
 tttgctgcgc cctgatttcc atgtctcggc ccaaaatggt gggttcgcaa aggtggtgct 240
 tatactggag agt 253

<210> 1582
 <211> 257
 <212> DNA
 <213> Glycine max
 <400> 1582

ggttttctctg tctgcttctt cactttctct cgtttcaatc gaaacaaaa caaaaacatg 60
 ggcagaaaat tcttcgtcgg tggcaactgg aaatgcaatg ggaccactga ggaggtaaag 120
 aagattgtta ctactttgaa tgaggctaaa gtccttgag aagatgtcgt agaagttggt 180
 gtgagccctc cttttgtgtt ccttcctggt gtaaaaagtt tgctgcgccc tgatttccat 240

gtttcggcac aaaactg 257

<210> 1583
<211> 238
<212> DNA
<213> Glycine max

<400> 1583

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gcaactggaa atgcaatggg accactgagg aggtaaagaa gattgttact actttgaatg 120
aggctaaagt ccttgagaa gatgtcgtag aagttgttgt gagccctcct tttgtgttcc 180
ttcctgttgt aaaaagtttg ctgcgcctg atttccatgt ttcggcaca aactgttg 238

<210> 1584
<211> 256
<212> DNA
<213> Glycine max

<400> 1584

ggtttctctg tctgcttctt cactttctct cgtttcaatc gaaacaaaa caaaaacatg 60
ggcagaaaat tcttcgtcgg tggcaactgg aaatgcaatg ggaccactga ggaggtaaag 120
aagattgtta ctactttgaa tgaggctaaa gtccctggag aagatgtcgt agaagttgtt 180
gtgagccctc cttttgtgtt ccttctgtt gtaaaaagtt tgctgcgcc tgatttccat 240
gtttcggcac aaaact 256

<210> 1585
<211> 255
<212> DNA
<213> Glycine max

<400> 1585

tcgtgtctg cttcttact ttctctcgtt tcaatcgaga ccagaacaaa aacatgggca 60
gaaaattctt cgtcgggtgg aactggaaat gcaatgggat cactgaggag gtaaagaaga 120
ttgttactac tttgaatgag gctaaagtcc ctggagaaga tgtcgtagaa gttgttgtga 180
gccctccttt tgtgttctt cctgttgtaa aaagtttget gcgccctgat ttccatgttt 240
cggcacgaaa ctgtt 255

<210> 1586
 <211> 259
 <212> DNA
 <213> Glycine max

<400> 1586

tctgtctgct tcttcacttt ctctcgtttc aatcgaaacc aaaacaaaaa catgggcaga 60
 aaattcttcg tcggtggcaa ctggaaatgc aatgggacca ctgaggaggt aaagaagatt 120
 gttactactt tgaatgaggc taaagtcctt ggagaatgtc gtagaagttg ttgtgagccc 180
 tccttttgtg ttccttcttg ttgtaaaaag tttgctgcgc cctgatttcc atgtttcggc 240
 acaaaaactgt tgggttcgc 259

<210> 1587
 <211> 250
 <212> DNA
 <213> Glycine max

<400> 1587

tgctttcttca ctttctctcg tttcaatcga gaaaaatcat gggcagaaga ttcttcgctg 60
 gtggcaactg gaaatgcaat gggaccactg aggaggtgaa gaagattgtg actacttta 120
 atgaagctaa agtccttgga gagatgttgt agaagttgtt gtgagccctc cttttgtgtt 180
 ccttcctttt gtaaaaagtg tgctgcgccc tgatttccat gtctcgcccc aaaattgttg 240
 ggttcgcaaa 250

<210> 1588
 <211> 265
 <212> DNA
 <213> Glycine max

<400> 1588

attgttgaac aagggtttct ctgtctgctt cttcactttc tctcgtttca atcgaaacca 60
 aaacaaaaac atgggcagaa aattcttcgt cggtggcaac tggaaatgca atgggaccac 120
 tgaggaggta aagaagattg ttactacttt gaatgaggct aaagtccttg gagaagatgt 180
 cgtagaagtt gttgtgagcc ctcttttgtg gttccttctt gttgtaaaaa gtttgctgcg 240
 ccctgatttc catgtttcgg caca 265

<210> 1589
 <211> 267
 <212> DNA
 <213> Glycine max

<400> 1589

gtttctcttt ctctttctct gtctgcttct tcactttctc tcgtttcaat cgaaaaaat 60
 catgggcaga aaattcttcg tcggtggcaa ctggaaatgc aatgggacca ctgaggaggt 120
 gaagaagatt gttatacttt aaatgaagct aaagtccctg gagaagatgt tgtagaagtt 180
 gttgtgagcc ctctttttgt gttccttctt tttgtaaaaa gtttgctgcg ccttgatttc 240
 catgtctcgg cccaaaattg ttgggtt 267

<210> 1590
 <211> 250
 <212> DNA
 <213> Glycine max

<400> 1590

agggtttctc tttctctttc tctgtctgct tcttcacttt ctctcgtttc aatcgaaaaa 60
 aatcatgggc agaaaattct tcgtcgggtg caactggaaa tgcaatggga ccactgagga 120
 ggtgaagaag attgttacta ctttaaataga agctaaagtc cctggagaag atgttgtaga 180
 agttgttggtg agccctcctt ttgtgttctt tccttttgta aaaagtttgc tgcgccctga 240
 ttccatgtc 250

<210> 1591
 <211> 251
 <212> DNA
 <213> Glycine max

<400> 1591

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 caaaaacatg ggcagaaaat tcttcgtcgg tggcaactgg aaatgcaatg ggaccactga 120
 ggaggtaaag aagattgtta ctactttgaa tgaggctaaa gtccctggag aagatgtcgt 180
 agaagttggt gtgagccctc cttttgtggt ccttcctggt gtaaaaagtt tgctgcgctc 240
 tgatttccat g 251

<210> 1592
 <211> 245
 <212> DNA
 <213> Glycine max

<400> 1592

cttctctgtc tgcttcttca ctttctctcg tttcaatcga aaccaaaca aaaacatggg 60
 cagaaaattc ttcgtcgggtg gcaactggaa atgcaatggg accactgagg aggtaaagaa 120
 gattgttact actttgaatg aggctaaagt ccctggagaa gatgtcgtag aagttgttgt 180
 gagccctcct tttgtgttcc ttcctgttgt aaaaagtttg ctgcgccctg atttccatgt 240
 ttctgg 245

<210> 1593
 <211> 253
 <212> DNA
 <213> Glycine max

<400> 1593

gggtttctct ttctctttct ctgtctgctt cttcactttc tctcgtttca atcgaaaaaa 60
 atcatgggca gaaaattctt cgtcgggtggc aactggaaat gcaatgggac cactgaggag 120
 gtgaagaaga ttgttactac tttaaataaa gctaaagtcc ctggagaaga tgtttagtaa 180
 gttgttgtga gccctccttt tgtgttctct ccttttgtaa aaagtttgct gcgccctgat 240
 ttccatgtct cgg 253

<210> 1594
 <211> 262
 <212> DNA
 <213> Glycine max

<400> 1594

tgttgaacaa gggtttctct gtctgcttct tcaactttct tcgtttcaat cgaaaccaa 60
 aaaaaatcat gggcagaaaa ttcttcgttg gtggcaactg gaaatgcaat gggaccactg 120
 aggaggtaaa gaagattgtt actactttga atgaggctaa agtacctgga gaagatgtcg 180
 tagaagttgt tgtgagccct ccttttggtg tcttctctgt tgtaaaaagt ttgctgcgcc 240
 ctgatttcca tgtttcggca ca 262

<210> 1595
 <211> 253
 <212> DNA
 <213> Glycine max

<220>
 <221> unsure
 <222> (1)..(253)
 <223> unsure at all n locations

<400> 1595

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 tgggcagaaa attcttcgtn ggtggcaact ggaaatgcaa tgggaccact gaggaggtaa 120
 agaagattgt tactactttg aatgaggcta aagtcacctg ngaagatgtc gtagaagttg 180
 ttgtgagccc tccttttggtg ttccttctctg ttgtaaaaag tttgctgcgc cctgatttcc 240
 atgtttcggn cac 253

<210> 1596
 <211> 249
 <212> DNA
 <213> Glycine max

<400> 1596

gttgaacaag ggtttctctg tctgcttctt cactttctct cgtttcaatc gaaaccaaaa 60
 caaaaacatg ggcagaaaat tcttcgctcg tggcaactgg aaatgcaatg ggaccactga 120
 ggaggtaaag aagattgtta ctactttgaa tgaggctaaa gtccttgag aagatgtcgt 180
 agaagttggt gtgagccctc cttttgtgtt ctttctgtt gtaaaaagtt tgctgcgccc 240
 tgatttcca 249

<210> 1597
 <211> 248
 <212> DNA
 <213> Glycine max

<400> 1597

acaacaacgg ctgttggtgc tgagcaaaca aaagcaattg cagctaaaat atcaaattgg 60
 gacaatgtcg ttttggccta tgcgccagtt tgggccattg gaacaggaaa gggttgcaact 120

cctgctcagg gctcagaggt tcatgctgat taaggaaatg gggcatgac aatgtgagtt 180
 ctgaagttgc cgcattctgta ggaataatct atggaggctc tgtaaattga ggaaactgca 240
 aagaattg 248

<210> 1598
 <211> 255
 <212> DNA
 <213> Glycine max

<220>
 <221> unsure
 <222> (1)..(255)
 <223> unsure at all n locations

<400> 1598

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 caanacaaaa tcatgggcag aaaattcttc gttggtggca actggaaatg caatgggacc 120
 actgaggagg taaagaagat tgttactact ttgaatgagg ctaaagtccc tggagaagat 180
 gtcgtagaag ttgttgtgag ccctcctttt gtgttccttc ctgttgtaaa aagtttgctg 240
 cgccctgatt tccat 255

<210> 1599
 <211> 263
 <212> DNA
 <213> Glycine max

<400> 1599

gttgaacaag ggtttctctg tctgcttctt cactttctct cgtttcaatc gaaaccaaaa 60
 caaaaacatg ggcagaaaat tcttcgtcgg tggcaactgg aaatgcaatg ggaccactga 120
 ggaggtaaag aagattgtta ctactttgaa tgaggctaaa gtccttgag aagatgtcgt 180
 agaagttggt gtgagccctc cttttgtgtt ctttcctggt gtaaaaagtt tgctgcgccc 240
 tgatttccat gtttcggcac aaa 263

<210> 1600
 <211> 251
 <212> DNA
 <213> Glycine max

<400> 1600

tgttgaacaa gggtttctct gtctgcttct tcactttctc acgtttcaat cgaaaccaa 60
 aaaaaacat gggcagaaaa ttcttcgtcg gtggcaactg gaaatgcaat gggaccactg 120
 aggaggtaaa gaagattggt actactttga atgaggctaa agtccctgga gaagatgtcg 180
 tagaagttgt tgtgagccct accttttgtg ttcttacctg ttgtaaaaag tttgctgcgc 240
 cctgatttcc a 251

<210> 1601
 <211> 255
 <212> DNA
 <213> Glycine max
 <400> 1601

tgaacaaggg tttctctgtc tgcttcttca ctttctctcg tttcaatcga aaccaaaca 60
 aaaacatggg cagaaaattc ttcgtcgggtg gcaactggaa atgcaatggg accactgagg 120
 aggtaaagaa gattgttact actttgaatg aggctaaagt ccctggagaa gatgtcgtag 180
 aagttgttgt gagccctcct tttgtgttcc ttctgtttgt aaaaagtttg ctgcgccctg 240
 atttccatgt ttcgg 255

<210> 1602
 <211> 246
 <212> DNA
 <213> Glycine max
 <400> 1602

tgttgaacaa gggtttctct gtctgcttct tcactttctc tcgtttcaat cgaaaccaa 60
 aaaaaacat gggcagaaaa ttcttcgtcg gtggcaactg gaaatgcaat gggaccactg 120
 aggaggtaaa gaagattggt actactttga atgaggctaa agtccctgga gaagatgtcg 180
 tagaagttgt tgtgagccct ccttttgtgt tccttctgtg tgtaaaaagt ttgctgcgcc 240
 ctgatt 246

<210> 1603
 <211> 249
 <212> DNA
 <213> Glycine max
 <400> 1603

attgttgaac aagggtttct ctgtctgctt cttcactttc tctcgtttca atcgaaacca 60
aaacaaaatc atgggcagaa aattcttctg tggtggcaac tggaaatgca atgggaccac 120
tgaggaggta aagaagattg ttactacttt gaatgaggct aaagtccttg gagaagatgt 180
cgtagaagtt gttgtgagcc ctctttttgt gttccttctt gttgtaaaaa gtttgctgcg 240
ccctgattt 249

<210> 1604
<211> 227
<212> DNA
<213> Glycine max

<400> 1604

tgcttcttca ctttctctcg tttcaatcga aacaaaaaca aaaacatggg cagaaaattc 60
ttcgtcggtg gcaactggaa atgcaatggg accactgagg aggtaaagaa gattgttact 120
actttgaatg aggctaaagt cccgggggaa gatgtcgtag aagttgttgt gagccctcct 180
tttgtgttcc ttctgttgt aaaaagtttg ctgcgccttg atttcca 227

<210> 1605
<211> 266
<212> DNA
<213> Glycine max

<400> 1605

gttgagcaag gggttctctg tctgcttctt cactttctct cgtttcaatc gaaacaaaaa 60
caaaaacatg ggcagaaaat tcttcgctcg tggcaactgg aaatgcaatg ggaccactga 120
ggaggtaaag aagattgtta ctactttgaa tgaggctaaa gtccttgag aagatgtcgt 180
agaagttgtt gtgagccctc cttttgtgtt ctttctgtt gtagaaagtt tgctgcgccc 240
tgatttccat gtttcggcac aaaact 266

<210> 1606
<211> 258
<212> DNA
<213> Glycine max

<400> 1606

gttgaacaag gggttctctg tctgcttctt cactttctct cgtttcaatc gaaacaaaaa 60

caaaaacatg ggcagaaaat tcttcgtcgg tggcaactgg aaatgcaatg ggaccactga 120
ggaggtaaag aagattgtta ctactttgaa tgaggctaaa gtccttgag aagatgtcgt 180
agaagttggt gtgagccctc cttttgtgtt ccttcctgtt gtaaaaagtt tgctgcgcc 240
tgatttccat gtttcggc 258

<210> 1607
<211> 242
<212> DNA
<213> Glycine max

<400> 1607

tggtgaacaa gggtttctct gtctgcttct tcactttctc tcgtttcaat cgaaaccaa 60
acaaaaacat ggcagaaaa ttcttcgtcg gtggcaactg gaaatgcaat gggaccactg 120
aggaggtaaa gaagattggt actactttga atgaggctaa agtccttgga gaagatgtcg 180
tagaagttgt tgtgagccct cttttgtgt tccttcctgt tgtaaaaagt ttgctgcgcc 240
ct 242

<210> 1608
<211> 252
<212> DNA
<213> Glycine max

<220>
<221> unsure
<222> (1)..(252)
<223> unsure at all n locations

<400> 1608

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acaaaatcat ggcannaaa ttcttcgttg gtggcaantg ganatgcaat gggaccactg 120
aggaggtaaa gnagattggt actactttga atgaggctaa agtccttgga gaagatgtcg 180
tagaagttgt tgtgagccct ctttngtgt tccttcctgt tgtaaaaagt ttgctgcgcc 240
ctgatttcca tg 252

<210> 1609
<211> 266
<212> DNA

<213> Glycine max

<400> 1609

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tttctctttc tctttctctg tctgcttctt cactttctct cgtttcaatc gaaaaaaatc 60
atgggcagaa aattcttcgt cggtaggcaac tggaaatgca atgggaccac tgaggaggtg 120
aagaagattg ttactacttt aaatgaagct aaagtccttg gagaagatgt tgtagaagtt 180
gttgtgagcc ctctttttgt gttccttctt tttgtaaaaa gtttgctggc gccctgattt 240
ccatgtctcg gcccaaaatt gttggg 266
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<210> 1610

<211> 339

<212> DNA

<213> Glycine max

<220>

<221> unsure

<222> (1)..(339)

<223> unsure at all n locations

<400> 1610

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caaaaacatg ggcagaaaat tcttcgtcgg tggcaactgg aaatgcaatg gggaccactg 120
aggaggtaaa gaagattggt actactttga atgaggctaa agtccttgga gaagatgtcg 180
tagaagttgt tgtgagccct ccttttgtgt tccttctctg tgtaaaaagt ttgctgcgcc 240
ctgattccat gtttcggcac aaaactgttg ggttcgcaaa gtggtgctta taccggaggt 300
tagtgctgaa atgctgttaa ttgggaatcc cctngggaa 339
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<210> 1611

<211> 272

<212> DNA

<213> Glycine max

<400> 1611

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attgtattgt tgaacaaggg tttctctgtc tgctttcttca ctttctctcg tttcaatcga 60
aaccaggttg aggacatggg cagaaaattc ttcgtcgggtg gcaactggaa atgcaatggg 120
accactgagg aggtaaagaa gattgttact actttgaatg aggctaaagt ccctggagaa 180
gatgtcgtag aagttgttgt gagccctcct tttgtgttcc ttctgttgtt aaaaagtttg 240
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ctgcgccctg atttccatgt ttcggcacia aa

272

<210> 1612
<211> 264
<212> DNA
<213> Glycine max

<220>
<221> unsure
<222> (1)..(264)
<223> unsure at all n locations

<400> 1612

ggtttctctt tctctttctc ngctctgctc ntcactttct ctcgtntcaa tcgaaaaaaaa 60
tcatgggcag aaaattcttc gtcggtggca actggaaatg caatgggacc actgaggagg 120
tgaagaagat tggtactact ttaaataaag ctaaagtcct tggagaagat gttgtagaag 180
ttgttgtagag cctccttttt gtgttccttc ctttgtanaa agtttgctgc gccctgattt 240
nccatgtctc ggcccaaaat tggt 264

<210> 1613
<211> 190
<212> DNA
<213> Glycine max

<400> 1613

ttaaaatcat gggcagaaaa ttcttcgctc gtggcaactg gaaatgcaat gggaccactg 60
aggaggtgaa gaagattggt actacttta atgaagctaa agtccctgga gaagatgttg 120
tagaagttgt tgtgagccct ctttttgtgt tccttccttt tgtaaaaagt ttgctgcgcc 180
ctgatttcca 190

<210> 1614
<211> 249
<212> DNA
<213> Glycine max

<400> 1614

caatgaacaa gggtttctct ttctctttct ctgtctgctt cttcactttc tctcgtttca 60
atcgaaaaaa atcatgggca gaaaattctt cgtcgggtggc aactggaaat gcaatgggac 120

cactgaggag gtgaagaaga ttgttactac tttaaataa gctaaagtcc ctggagaaga 180
 tgtttagataa gttgttgtga gccctccttt tgtgttcctt ccttttgtaa aaagtttgct 240
 gcgccctga 249

<210> 1615
 <211> 257
 <212> DNA
 <213> Glycine max

<400> 1615

gttgaacaag ggtttctctg tctgcttctt cactttctct cgtttcaatc gaaacaaaa 60
 caaaaacatg ggcagaaaat tcttcgtcgg tggcaactgg aaatgcaatg ggaccactga 120
 ggaggtaaag aagattgtta ctactttgaa tgaggctaaa gtccttgagg aagatgtcgt 180
 agaagttgtt gtgagccctc cttttgtgtt ccttctgtt gtaaaagttt gctgcgccct 240
 gatttccatg tttcggc 257

<210> 1616
 <211> 237
 <212> DNA
 <213> Glycine max

<400> 1616

ctcgagccgg ttgaacaagg gtttctctgt ctgcttcttc actttctctc gtttcaatcg 60
 aaacaaaaac aaaaacatgg gcagaaaatt cttcgtcggg ggcaactgga aatgcaatgg 120
 gaccactgag gaggtaaaga agattgttac tactttgaat gaggctaaag tccctggaga 180
 agatgtcgta gaagttgttg tgagccctcc ttttgtgttc cttcctcttg taaaaag 237

<210> 1617
 <211> 245
 <212> DNA
 <213> Glycine max

<220>
 <221> unsure
 <222> (1)..(245)
 <223> unsure at all n locations

<400> 1617

gtagaactga acaagggttt ctctttctct ttctctgtct gcttcttcac tttctctcgt 60

ttcaatcgca aaaaaatcat gggcagaaaa ttcttcgctg gtggcaactg gaaatgcaat 120
 gggaccactg aggaggtgaa gaagattgtt actactttta atgaagctaa agtccctgga 180
 gaagatgttn aagaagttgt tgtgagccct ccttttgtgt tccttccttt gtaaaaagtt 240
 tgctg 245

<210> 1618
 <211> 259
 <212> DNA
 <213> Glycine max
 <400> 1618

agggtttctc tttctcttct tctgtctgct tcttcacttt ctctcggtca atcgaaaaaa 60
 atcatgggca gaaaattctt cgtcgggtggc aactggaaat gcaatgggac cactgaggag 120
 gtgaagaaga ttgttactac tttaaatgaa gctaaagtcc ctggagaaga tgtttagtaa 180
 gttgttgtga gccctccttt tgtgttcctt ccttttgtaa aaagtttgct gcgccctgat 240
 ttccatgtct cggcccaaa 259

<210> 1619
 <211> 241
 <212> DNA
 <213> Glycine max

<220>
 <221> unsure
 <222> (1)..(241)
 <223> unsure at all n locations
 <400> 1619

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 tcatgggcag aaaattcttc gtcgggtggc actggaaatg caatgggacc actgaggagg 120
 tgaagaagat tggttactact ttaaatagaag ctaaagtccc tggagaagat gttgtagaag 180
 ttgttgtgag ccctcctttt gtgttcctcc ttttgtaaaa ngtttgctgc gccctgattt 240
 c 241

<210> 1620
 <211> 272
 <212> DNA

<213> Glycine max
 <400> 1620

tacggctgcg agaagacgac agaaggggac tcgcagttgt attgttgaac aagggtttct 60
 ctgtctgctt cttcactttc tctcgtttca atcgaaacca aaacaaaaac atgggcagaa 120
 aattcttcgt cgggtggcaac tggaaatgca atgggaccac tgaggaggta aagaagattg 180
 ttactacttt gaatgaggct aaagtccttg gagaagatgt cgtagaagtt gttgtgagcc 240
 ctccctttgt gttccttcct gttgtaaaaa gt 272

<210> 1621
 <211> 221
 <212> DNA
 <213> Glycine max
 <400> 1621

tgttgaacaa gggtttctct gtctgcttct tcactttctc tcgtttcaat cgaaacacaa 60
 aaaaaaacat gggcagaaaa ttcttcgctg gtggcaactg gaaatgcaat gggaccactg 120
 aggaggtaaa gaagattggt actactttga atgaggctaa agtccttgga gaagatgtcg 180
 tagaagttgt tgtgagccct ccttttgtgt tccttctgt t 221

<210> 1622
 <211> 266
 <212> DNA
 <213> Glycine max
 <400> 1622

aacggctgcg agaagacgac agaagggggc agttgtattg ttgaacaagg gtttctctgt 60
 ctgcatcttc gctttctctc gtttcaatcg aaacaaaaac aaaaacatgg gcagaaaatt 120
 cttcgtcggt ggcaactgga aatgcaatgg gaccactgag gaggtaaaga agattgttac 180
 tactttgaat gaggctaaag tccctggaga agatgtcgta gaagttgttg tgagccctcc 240
 ttttgtgttc cttcctgttg taaaaa 266

<210> 1623
 <211> 260
 <212> DNA
 <213> Glycine max

<400> 1623

ggctgcgaga agacgacaga aggggactcg cagttgtatt gttgaacaag ggtttctctg 60

tctgcttctt cactttctct cgtttcaatc gaaacaaaa caaaaacatg ggcagaaaat 120

tcttcgtcgg tggcaactgg aaatgcaatg ggaccactga ggaggtaaag aagattgtta 180

ctactttgaa tgaggctaaa gtccctggag aagatgtcgt agaagttggt gtgagccctc 240

cttttgtggt ccttcctggt 260

<210> 1624

<211> 273

<212> DNA

<213> Glycine max

<400> 1624

gttgaacaag ggtttctctg tctgcttctt cactttctct cgtttcaatc gaaacaaaa 60

caaaaacatg ggcagaaaat tcttcgtcgg tggcaactgg aaatgcaatg ggaccactga 120

ggaggtaaag aagattgtta ctactttgaa tgaggctaaa gtccctggag aagatgtcgt 180

agaagttggt gtgagccctc cttttgtggt ccttcctggt gtaaaaagtt tgctgcgccc 240

tgatttccat gtttcggcac aaaactggtg ggt 273

<210> 1625

<211> 257

<212> DNA

<213> Glycine max

<220>

<221> unsure

<222> (1)..(257)

<223> unsure at all n locations

<400> 1625

ctctctcttt ctctgtctgc ttcttcactt tctctcgttt caatcgaaaa aaatcatggg 60

cagaaaattc ttcgtcggtg gcaactggna atgcaatggg accactgagg aggtgaagaa 120

gattgtnact actttaaatg aagctaaagt ccctggagaa gatgtttag aagttgttgt 180

gagccctcct ttgtntcca tccttngtaa aaatttgcn gccccggant tncatgtcng 240

ggccnaaatt gttgggt 257

<210> 1626
 <211> 272
 <212> DNA
 <213> Glycine max

 <400> 1626

 cgctgttttcg acggtcacac gcagttgtat tgtagaactg accaagggtt tctctttctc 60
 tttctctgtc tgcttcttca ctttctctcg tttcaatcga aaaaaatcat gggcagaaaa 120
 ttcttcgctg gtggcaactg gaaatgcaat gggaccactg atgaggtgaa gaagattggt 180
 actactttaa atgaagctaa agtccttgga gaagatgttg tagaagttgt tgtgagccct 240
 ccttttgtgt tccttccttt tgtaaaaagt tt 272

<210> 1627
 <211> 253
 <212> DNA
 <213> Glycine max

 <400> 1627

 tacggctgcg agaagacgac agaaggggac tcgcagttgc attgttgaac aagggtttct 60
 ctgtctgctt cttcactttc tctcgtttca atcgaaacca aaacaaaaac atgggcagaa 120
 aattcttcgt cgggtggcaac tggaaatgca atgggaccac tgaggaggta aagaagattg 180
 ttactacttt gaatgaggct aaagtccttg gagaagatgt cgtagaagtt gttgtgagcc 240
 ctcccttttgt gtt 253

<210> 1628
 <211> 148
 <212> DNA
 <213> Glycine max

 <400> 1628

 aaaaacatgg gcagaaaatt cttcgtcggg ggcaactgga aatgcaatgg gaccactgag 60
 gaggtaaaga agattgttac tactttgaat gaggctaaag tccttgagaga agatgtcgta 120
 gaagttgttg tgagccctcc ttttgtgt 148

<210> 1629
 <211> 268
 <212> DNA
 <213> Glycine max

<400> 1629

tacggctgcg agaagacgac agaagggggc agttgtattg ttgaacaagg gtttctctgt 60
ctgcttcttc actttctctc gtttcaatcg aaacccaaac aaaaacatgg gcagaaaatt 120
cttcgtcggt ggcaactgga aatgcaatgg gaccactgag gaggtaaaga agattgttac 180
tactttgaat gaggctaaag tccctggaga agatgtcgta gaagttgttg tgagccctcc 240
ttttgtgttc cttcctgttg taaaaagt 268

<210> 1630

<211> 265

<212> DNA

<213> Glycine max

<400> 1630

acggtcacac gcagttgtat tgtagaactg aacaagggtt tctctttctc tttctctgtc 60
tgcttcttca ctttctctcg tttcaatcg aaaaaatcat ggcagaaaaa ttcttcgtcg 120
gtggcaactg gaaatgcaat gggaccactg aggaggtgaa gaagattggt actacttta 180
atgaagctaa agtccctgga gaagatgttg tagaagttgt tgtgagccct ccttttgtgt 240
tccttccttt tgtaaaaagt ttgct 265

<210> 1631

<211> 274

<212> DNA

<213> Glycine max

<400> 1631

gtagaactga acaagggttt ctctttctct tctctgtct gcttcttcac tttctctctg 60
ttcaatcgaa aaaaatcatg ggcagaaaat tcttcgtcgg tggcaactgg aaatgcaatg 120
ggaccactga ggaggtgaag aagattgtta ctactttaaa tgaagctaaa gtccttgag 180
aagatgttgt agaagttgtt gtgagccctc cttttgtgtt ccttcctttt gtaaaaagtt 240
tgctgcgcgc tgatttccat gtctcgcccc aaaa 274

<210> 1632

<211> 255

<212> DNA

<213> Glycine max

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<220>
<221>      unsure
<222>      (1)..(255)
<223>      unsure at all n locations

<400>      1632

ctttctcttt ctctgtctgc ttcttcactt tctctcgttt caatngaaaa aaatcatggg      60
nagaaaattc ttcgtgcggt ggcaactgga aatgcaatgg gaccanttan gacgtgaana      120
agnttnttan tactttaaat nnnngntaaag tccctggaga ngatgttgta gnnnttgttg      180
tgagccctcc tttngtgtnc cttcctnntg taaaangttt nctgcgcncn gatttccttg      240
tctcggccca naatt                                                    255

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<210> 1635
 <211> 254
 <212> DNA
 <213> Glycine max

<400> 1635

gggtttctct ttctctttct ctgactgctt cttcactttc tctcgttgca atcgaaaaaa 60
 atcatgggca gaaaattctt cgtcggtggc aactggaaat gcaatgggac cactgaggag 120
 gtgaagcaga ttgttactac tttaaatgaa gctaaagtcc ctggagaaga tgttgtagac 180
 gttgttgtga gccctccttt tgtgttcctt ccttttgtaa aaagtttgct gcgccctgat 240
 ttccatgtct cgga 254

<210> 1636
 <211> 234
 <212> DNA
 <213> Glycine max

<400> 1636

tacggctgcg agaagacgac agaagggggc agttgtattg ttgaacaagg gtttctctgt 60
 ctgcttcttc actttctctc gtttcaatcg aaacaaaaac aaaaacatgg gcagaaaatt 120
 cttcgtcggt ggcaactgga aatgcaatgg gaccactgag gaggtaaaga agattgttac 180
 tactttgaat gaggctaaag tccctggaga agatgtcgta gaagttgttg tgag 234

<210> 1637
 <211> 193
 <212> DNA
 <213> Glycine max

<400> 1637

gtttctcttt ctctttctct gtctgcttct tcactttctc tcgtttcaat cgaaaaaaat 60
 catgggcaga aaattcttcg tcggtggcaa ctggaaatgc aatgggacca ctgaggaggt 120
 gaagaagatt gttactactt taaatgaagc taaagtcctt ggagaagatg ccgtagaagt 180
 tgttgtgagc cct 193

<210> 1638
 <211> 300
 <212> DNA

<213> Glycine max
 <220>
 <221> unsure
 <222> (1)..(300)
 <223> unsure at all n locations
 <400> 1638
 acggctgcga gaagacgaca gaaggggaca cgcagttgta ttgtagaact gaacaagggt 60
 ttctctttct ctttctctgt ctgcttcttc actttctctc gtttcaatcg aaaaaaatca 120
 tgggcagaaa attcttcgtc ggtggcaact ggaaatgcaa tgggaccact gaggagggtga 180
 agaagattgt tactacttta aatgaagcta nagtccttgg agaagatggt gtagaagttg 240
 ttgtgagcct ctttttgtgt tcttcctttt gtaaaaattg ctgcgcctga ttccagtctc 300

<210> 1639
 <211> 240
 <212> DNA
 <213> Glycine max
 <400> 1639
 aggctgtatt gtagaactga acaagggttt ctctttctct ttctctgtct gcttcttcac 60
 tttctctcgt ttcaatcgaa aaaaatcatg ggcagaaaat tcttcgtcgg tggcaactgg 120
 aaatgcaatg ggaccactga ggagggtgaag aagattgtta ctactttaaa tgaagctaaa 180
 gtccctggag aagatgttgt agaagttggt gtgagcctcc ttttgtgttc cttcttttgt 240

<210> 1640
 <211> 278
 <212> DNA
 <213> Glycine max
 <220>
 <221> unsure
 <222> (1)..(278)
 <223> unsure at all n locations
 <400> 1640
 ctgaacaagg gtttctcttt ctctttctct gtctgcctct tcactttctc tcgtttcaat 60
 cgaaaaaatc atgggcagaa aattcttccg tcggtggcaa ctggaaatgc aatgggacca 120
 ctgaggaggt gaagaagatt gttatacttt aaatgaagct aaagtccttg gagaagatgt 180

tgtagaagtt gttgtgagcc ctcttttgt gttccttcct ttgtaaaaag ttngctgcgc 240
 cctgatttcc atgtctcggc ccaaaattgt tgggttcg 278

<210> 1641
 <211> 263
 <212> DNA
 <213> Glycine max

<220>
 <221> unsure
 <222> (1)..(263)
 <223> unsure at all n locations

<400> 1641

gttgaacaag ggtttctctg tctgcttctt cactttctct cgtttcaatc gaaaccaaaa 60
 caaaaacatg ggcagaaaat tattcgtcgg tggnaactgg aaatgcnatg ggacnactga 120
 ggaggtaaag aagattgtta ctactttgna tgaggcnaaa gtccctggag angatgtcgt 180
 agaagttggt ntgaggcctc cttttgtggt ncttcnccgt tgtaaaaagt ttgctgcgcc 240
 ctgatttcca tgtttcggca caa 263

<210> 1642
 <211> 238
 <212> DNA
 <213> Glycine max

<400> 1642

aacaaggggt tctctgtctg cttcttcact ttctctcgtt tcaatcgaaa ccaaaacaaa 60
 aacatgggca gaaaattctt cgtcggtggc aactggaaat gcaatgggac cactgaggag 120
 gtaaagaaga ttgttactac tttgaatgag gctaaagtcc ctggagaaga tgtcgtagaa 180
 gttgtttgtga gccctccttt tgtgttcctt cctgtttgtaa aaagtttget gcgccctg 238

<210> 1643
 <211> 266
 <212> DNA
 <213> Glycine max

<220>
 <221> unsure
 <222> (1)..(266)
 <223> unsure at all n locations

<400> 1643

gttgaacnag ggtttctctn tctgcttctt cactttctct cgttnccaat cgaaaccaa 60
acaaaatcat gggcagaaaa ttcttcgttg gtggcaactg gaaatgcaat gggaccactg 120
angaggtaaa gnagattggt actactttga atgaggctaa agtccctgga gaagatgtcg 180
tagaagttgt tgtgagccct cctttgtgtt ccttcctgtt gtaaaaagtt tgctgcgcc 240
tgatttccat gtttcggcan anactg 266

<210> 1644

<211> 256

<212> DNA

<213> Glycine max

<400> 1644

gttgaacaag ggtttctctg tctgcttctt cactttctct cgtttcaatc gaaacaaaa 60
caaatcatg ggcagaaaat tcttcgttg tggaactgg aaatgcaatg ggaccactga 120
ggaggtaaag aagattgtta ctactttgaa tgaggctaaa gtcctggag aagatgtcgt 180
agaagttgtt gtgagcctcc ttttgtgttc cttcctgttg taaaaagttt gctgcgccct 240
gatttccatg tttcgg 256

<210> 1645

<211> 250

<212> DNA

<213> Glycine max

<400> 1645

ctacagctgg ggactcgcag ttgtattgtt gaacaagggt ttctctgtct gcttcttcac 60
tttctctcgt ttcaatcgaa accaaaacaa aaacatgggc agaaaattct tcgtctgtgg 120
caactggaaa tgcaatggga ccaactgagga ggtaaagaag attgttacta ctttgaatga 180
ggctaaagtc cctggagaag atgtcgtaga agttgttgtg agccctcttt tgtgttcctc 240
ctgttgtaaa 250

<210> 1646

<211> 264

<212> DNA

<213> Glycine max

<400> 1646

acggctgcga gaagacgaca gaaggggact cgcagttgta ttgttgaaca aggggttctc 60

tgtctgcttc ttcactttct ctcgtttcaa tcgaaaccaa acaaaaaaca tgggcagaaa 120

attcttcgtc ggtggcaact ggaaatgcaa tgggaccact gaggaggtaa agaagattgt 180

tactactttg aatgaggcta aagtcctgga agaagatgtc gtagaagttg ttgtgagccc 240

tccttttgtg ttccttctctg ttgt 264

<210> 1647

<211> 267

<212> DNA

<213> Glycine max

<400> 1647

gtagtactga tcaaggggtgt ctgtttctat gtctctgtgt gtttcgtcac tttctctcgt 60

ttcaatcgaa aaagatcatg ggtagaagat tagtcgtcgg tggcaactgg aaatgcaatg 120

ggaccactga ggaggtgaag aagattgtta ctactttaaa tgaggctaaa gtccctggag 180

aagatgttgt tgaagttgtt gtgagccgcc ttttgtgttc ctccttttgt agaggtttgc 240

tgcgccctgga tttccatgtc tcggccc 267

<210> 1648

<211> 238

<212> DNA

<213> Glycine max

<400> 1648

gtagaactga acaaggggtt ctctttctct tttctctgtct gcttcttcac tttctctcgt 60

ttcaatcgaa aaaaatcatg ggcagaaaat tcttcgtcgg tggcaactgg aaatgcaatg 120

ggaccactga ggaggtgaag aagattgtta ctactttaaa tgaagctaaa gtccctggag 180

aagatgttgt agaagttgtt gtgagccctc ttttgtgttc cttcctttgt aaaaagtt 238

<210> 1649

<211> 273

<212> DNA

<213> Glycine max

<400> 1649

gaacaagggt ttctctttct ctttctctgt ctgcttcttc actttctctc gtttcaatcg 60
 aaaaaaatca tgggcagaaa attcttcgtc ggtggcaact ggaaatgcaa tgggaccact 120
 gaggaggtga agcagattgt tactacttta aatgaagcta cagtccttgg agaagatgtt 180
 gtagaagttg ttgtgagccc tccttttgtg ttccttcctt ttgtaaaaag tttgctgcgc 240
 cctgatttcc atgtctcggc ccaaaattgt tgg 273

<210> 1650
 <211> 240
 <212> DNA
 <213> Glycine max

<400> 1650

acggctgcga gaagacgaca gaaggggact cgcagttgta ttgttgaaca agggtttctc 60
 tgtctgcttc ttcactttct ctcgtttcaa tcgaaaccaa aacaaaaaca tgggcagaaa 120
 attcttcgtc ggtggcaact ggaaatgcaa tgggaccact gaggaggtta agaagattgt 180
 tactactttg aatgaggcta aagtccttgg aagagatgtc gtagaagttg ttgtgagccc 240

<210> 1651
 <211> 252
 <212> DNA
 <213> Glycine max

<220>
 <221> unsure
 <222> (1)..(252)
 <223> unsure at all n locations

<400> 1651

gcgcattatt ataaagagtg ataaggttgt ttggacggtc nntcgcagtt gtattgttga 60
 acaagggttt ctctgtctgc ttcttcactt tctctcgttt caatcgaaac caaaacaaaa 120
 acatgggcag aaaattcttc gtcggtggca actggaaatg caatgggacc actgaggagg 180
 taaagaagat tgttactact ttgaatgagg ctaaagtccc ggagaagatg tcgtagaagt 240
 tgttgtgagc cc 252

<210> 1652
 <211> 274
 <212> DNA
 <213> Glycine max

<400> 1652

gtagaactga acaagggttt ctctttctct ttctctgtct gcttcttcac tttctctcgt 60
ttcaatcgaa aaaaatcatg ggcagaaaat tcttcgtcgg tggcaactgg aaatgcaatg 120
ggaccactga ggaggtgaag aagattgtta ctactttaaa tgaagctaaa gccctggag 180
aagatgttgt agaagttgtt gtgagccctc cttttgtgtt cttcctttt gtaaaaagtt 240
tgctgcgcgc tgatttccat gtctcgccc aaaa 274

<210> 1653

<211> 185

<212> DNA

<213> Glycine max

<400> 1653

gttgaacaag ggtttctctg tctgcttctt cactttctct cgtttcaatc gaaacaaaa 60
caaatcatg ggcagaaaat tcttcgttgg tggcaactgg aaatgcaatg ggaccactga 120
ggaggttaaag aagattgtta ctactttgaa tgaggctaaa gtcctggag aagatgtcgt 180
agaag 185

<210> 1654

<211> 215

<212> DNA

<213> Glycine max

<400> 1654

gcttcttcac tttctctcgt ttcaatcgaa aaaaatcatg ggcagaaaat tcttcgtcgg 60
tggcaactgg aaatgcaatg ggaccactga ggaggtgaag aagattgtta ctactttaaa 120
tgaagcgtaa gtcgctggag gagaatgtgt agaagtgggt gtgagcctcc tttttgtgtc 180
cttccttttt taaaaaattt gctggggcct gattt 215

<210> 1655

<211> 266

<212> DNA

<213> Glycine max

<400> 1655

gaggaaactg caaagaattg gcagcacagc ccgatgttga tggatttttg gttggtggtg 60

catccctcaa ggcggaatth gtggacatca taaacgctgc tactgtgaag aagaattgaa 120
 attcgtagtt aggaactgat aatgctgcct ttcaagctgc ttcggaatt gctgtttttg 180
 agttttgggt ctgtgctttg tggccaatgt attgaactct gtttagtacc tgaataaaca 240
 tgctttcctt tgatctcatc catagg 266

<210> 1656
 <211> 248
 <212> DNA
 <213> Glycine max

<400> 1656

cgaaactgca aagaattggc agcacagccc gatgttgatg gatttttggt tgggtggtgca 60
 tccctcaagg cggaatttgt ggacatcata aacgctgcta ctgtgaagaa gaattgaaat 120
 tcgtagttag gaactgataa tgctgccttt caagctgctt cggaattgc tgtttttgag 180
 ttttggttct gtgctttgtg gccaatgtat tgaactctgt ttagtacctg aataaacatg 240
 ctttcctt 248

<210> 1657
 <211> 254
 <212> DNA
 <213> Glycine max

<400> 1657

aaagaattgg cagcacagcc cgatgttgat ggatttttgg ttggtggtgc atccctcaag 60
 gcggaatttg tggacatcat aaacgctgct actgtgaaga agaattgaaa ttcgtagtta 120
 ggaactgata tgctgccttt caagctgctt cggaattgc tgtttttgag ttttggttct 180
 gtgctttgtg gccaatgtat tgaactctgt ttagtacctg aataaacatg ctttcctttg 240
 atctcatcca tagg 254

<210> 1658
 <211> 225
 <212> DNA
 <213> Glycine max

<400> 1658

aaagaattgg cagcacagcc cgatgttgat ggatttttgg ttggtggtgc atccctcaag 60

gcggaatttg tggacatcat aaacgctgct actgtgaaga agaattgaaa ttcgtagtta 120
 ggaactgata atgctgcctt tcaagctgct tcggaaattg ctgtttttga gttttggttc 180
 tgtgctttgt ggccaatgta ttgaactctg tttagtagct gaata 225

<210> 1659
 <211> 258
 <212> DNA
 <213> Glycine max

<400> 1659

aaagaattgg cagcacagcc cgatgttgat ggatttttgg ttggtggtgc atcactcaag 60
 gcggaatttg tggacatcat aaacgctgct actgtgaaga agaattgaaa ttcgtagtta 120
 ggaactgata atctgccttt caagctgctt cggaaattgc tgtttttgag ttttggttct 180
 gtgctttgtg gccaatgtat tgaactctgt ttagtagctg aataaacatg ctttcctttg 240
 atctcatcca taggcgat 258

<210> 1660
 <211> 145
 <212> DNA
 <213> Glycine max

<400> 1660

gaaaattctt cgtcgggtggc aactggaaat gcaatgggac cactgaggag gtaaagaaga 60
 ttgttactac tttgaatgag gctaaagtcc ctggagaaga tgtcgtagaa gttgttgtga 120
 gccctccttt tgtgttcctt cctgt 145

<210> 1661
 <211> 180
 <212> DNA
 <213> Glycine max

<400> 1661

agaaaagggt ttctctgtct gcttcttcac tttctctcgt ttcaatcgaa accaaaacaa 60
 aaacatgggc agaaaattct tcgtcgggtg caactggaaa tgcaatggga ccactgagga 120
 ggtaaagaag attgttacta ctttgaatga ggctaaagtc cctggagaag atgtcgtaga 180

<210> 1662
 <211> 98
 <212> DNA
 <213> Glycine max

 <400> 1662

 ttgttttggc ctacgagcca gtttgggcca ttggaacagg aaaggttgct actcctgctc 60
 aggctcaaga ggggccatgc tgatttgagg aaatgggt 98

 <210> 1663
 <211> 147
 <212> DNA
 <213> Glycine max

 <400> 1663

 gctcgagggt tctctttctc tttctctgtc tgctttcttca ctttctctcg tttcaatcga 60
 aaaaaatcat gggcagaaaa ttcttcgtcg gtggcaactg gaaatgcaat gggaccactg 120
 aggaggtgaa gaagattggt actactt 147

 <210> 1664
 <211> 265
 <212> DNA
 <213> Glycine max

 <220>
 <221> unsure
 <222> (1)..(265)
 <223> unsure at all n locations

 <400> 1664

 gtttctctnt ctctntctct gtctgcttct tcactttctc tcgtttcant cganaaaaaat 60
 catgggcaga aaattctcgt cggcggcaac tggaaatgca atgggaccac tgaggagggtg 120
 aagaagattg tngnnactta aattgaagcc naaatccct tggggaaatg ttgtagannt 180
 tgttgtgagc cctccttttg tgttccttcc tntgtaaaaa gtttgctgcg ccttgattnc 240
 cagtctcggg ccanaaatgg tggng 265

 <210> 1665
 <211> 162
 <212> DNA
 <213> Glycine max

<400> 1665
aactgaacaa gggtttctct ttctcttct ctgtctgctt cttcactttc tctcgtttca 60
atcgaaaaaa atcatgggca gaaaattctt cgtcgggtggc aactggaaat gcaatgggac 120
cactgaggag gtgaagaaga ttgttactac tttaaataa gc 162

<210> 1666
<211> 150
<212> DNA
<213> Glycine max

<400> 1666
cgaacaaggg tttctctttc tctttctctg tctgcttctt cactttctct cgtttcaatc 60
gaaaaaaatc atgggcagaa aattcttctg cggtggcaac tggaaatgca atgggaccac 120
tgaggaggtg aagaagattg ttactacttt 150

<210> 1667
<211> 263
<212> DNA
<213> Glycine max

<400> 1667
caaagataat tcttacagat gcagcacagc ccgatgttga tggatttttg gttggtggtg 60
catccctcaa ggcggaattt gtggacatca taaacgctga tactgtgaag aagaattgaa 120
attcgtagtt aggaactgat aatgctgcct ttcaagctgc ttcggaaatt gctgtttttg 180
agttttgggt ctgtgctttg tggccaatgt attgaactct gttagtacc tgaataaaca 240
tgctttcctt tgatctcatc cat 263

<210> 1668
<211> 247
<212> DNA
<213> Glycine max

<400> 1668
aaagaattgg aagcacagcc cgatgttgat ggatttttgg ctggtggtgc atccctcaag 60
gcggaatttg tggacatcat aaacgctgct actgtgaaga agaattgaaa ttcgtagtta 120
ggaactgata atgctgcctt tcaagctgct tcggaaattg ctgtttttga gttttgggtc 180

tgtgctttgt ggccaatgta ttgaactctg tttagtagct gaataaacat gctttccttt 240
gatctca 247

<210> 1669
<211> 195
<212> DNA
<213> Glycine max

<400> 1669

tacggctgcg agaagacgac agaaggggac acgcagttgt attgtagaac tgaacaaggg 60
tttctctttc tctttctctg tctgcttctt cactttctct cgtttcaatc gaaaaaatc 120
atgggcagaa aattcttcgt cggtggcaac tggaaatgca atgggaccac tgaggaggtg 180
aagaagattg ttact 195

<210> 1670
<211> 271
<212> DNA
<213> Glycine max

<220>
<221> unsure
<222> (1)..(271)
<223> unsure at all n locations

<400> 1670

cttattggag anaatgatga gtttataggg aaganagctg cctatgcttt gagccaaggt 60
cttgggggtga ttgcatgcat tggagacttg ttagaagaaa gggaggctgg aaaaactact 120
gatgtttgtn ttcagcaatt gaaggcttat gcagacgcag ttgctagttg ggacaacatt 180
gttattgcat atgaacctgt atgggccatt ggaacgggca aagtcgccac tccccaacaa 240
gctcaggaag tacatgtagc tgttcgggat t 271

<210> 1671
<211> 322
<212> DNA
<213> Glycine max

<400> 1671

cttcgatggc ggcaacctca acatcaactgg cttctcaact ctacattggc ctgcgccgcc 60
cctgcctcaa gctcgattct ttcaattctc aatctttctc tctcttcgac cctaattctc 120

gcctatccct ctctccaccc aaaccctcac gcgccgtcat cgccatggcc ggcaccggga 180
 agttctttgt tgggtggcaac tggaagtgta acggaacaaa agactcaatc agcaagcttg 240
 ttgctgactt gaacaatgca aaattggagc ctgatgttga tgttgtcgtt gcacctccct 300
 tcctctacat cgatcaagtg aa 322

<210> 1672
 <211> 249
 <212> DNA
 <213> Glycine max

<400> 1672

gcaacctcaa catcactggc ttctcaactc tacattggcc tgccgcgccc ctgcctcaag 60
 ctogattctt tcaattctca atctttctct ctcttcgacc ctaatcttcg cctatccctc 120
 tctccaccca aaccctcacg cgccgtcatc gccatggccg gcaccgggaa gttctttgtt 180
 ggtggcaact ggaagtgtaa cggaacaaaa gactcaatca gcaagcttgt tgctgacttg 240
 aacaatgca 249

<210> 1673
 <211> 257
 <212> DNA
 <213> Glycine max

<400> 1673

ggcaacctca acatcactgg cttctcaact ctacattggc ctgcgcgccc cctgcctcaa 60
 gctogattct ttcaattctc aatctttctc tctcttcgac cctaattctc gcctatccct 120
 ctctccaccc aaaccctcac gcgccgtcat cgccatggcc ggcaccggga agttctttgt 180
 tgggtggcaac tggaagtgta acggaacaaa agactcaatc agcaagcttg ttgctgactt 240
 gaacaatgca aaattgg 257

<210> 1674
 <211> 275
 <212> DNA
 <213> Glycine max

<400> 1674

gtttttgttc ttcgatggcg gcaacctcaa catcactggc ttctcaactc tacattggcc 60

tgcgcgcgcc ctgcctcaag ctcgattctt tcaattctca atctttctct ctcttcgacc 120
 ctaatcttcg cctatccctc tctccacca aaccctcacg cgccgtcatc gccatggccg 180
 gcaccgggaa gttctttgtt ggtggcaact ggaagtgtaa cggaacaaa agactcaatc 240
 agcaagcttg ttgctgactt gaacaatgca aaatt 275

<210> 1675
 <211> 287
 <212> DNA
 <213> Glycine max
 <400> 1675

ctgtgttctt gtttttgttc ttcgatggcg gcaacctcaa catcactggc ttctcaactc 60
 tacattggcc tgcgcgcgcc ctgcctcaag ctcgattctt tcaattctca atctttctct 120
 ctcttcgacc ctaatcttcg cctatccctc tctccacca aaccctcacg cgccgtcatc 180
 gccatggccg gcaccgggaa gttctttgtt ggtggcaact ggaagtgtaa cggaacaaaa 240
 gactcaatca gcaagcttgt tgctgacttg aacaatgcaa aattgga 287

<210> 1676
 <211> 272
 <212> DNA
 <213> Glycine max

<220>
 <221> unsure
 <222> (1)..(272)
 <223> unsure at all n locations
 <400> 1676

gatggcggca acctcaacat cactgggctt ctcaactcta cattggcctg gcgcgcgcgc 60
 tgcctcaagc tcgattcttt caattctcaa tctttctctc tcttcgacce taatcttcgc 120
 cnatccctct ctccacccaa accctcacna caccgtcatc gccatggccg gcaccgggaa 180
 gttctttgtt ggtggcaact ggaagtgtaa cggaacaaaa gactcaatca gcaancttgt 240
 tgctgacttg aacaatgcaa aattggagcc tg 272

<210> 1677
 <211> 287
 <212> DNA

<213> Glycine max
 <220>
 <221> unsure
 <222> (1)..(287)
 <223> unsure at all n locations
 <400> 1677
 ctgtgttcct gtttttgttc ttcgatggcg gcaacctcaa catcactggc ttctcaactc 60
 tacattggcc tgcgcgcgcc ctgcctcaag ctcgattctt tcaattctca atctttcnct 120
 ctcttcgacc ctaatcttcg cctatccctc tctccacca aaccctcacg cgccgtcatc 180
 gccatggcgc gcaccgggaa gttctttgtt ggtggcaact ggaagtgtaa cgnaacaaaa 240
 gactcaatca gcaagcttgt tgctgacttg aacaatgcaa aattgga 287

<210> 1678
 <211> 274
 <212> DNA
 <213> Glycine max
 <400> 1678
 tgtttttgtt cttcgatggc ggcaacctca acatcactgg cttctcaact ctacattggc 60
 ctgcgcgcgcc cctgcctcaa gctcgattct ttcaattctc aatctttctc tctcttcgac 120
 cctaattctc gcctatccct ctctccacc aaaccctcac gcgcgcgtcat cgccatggcc 180
 ggcaccggga agttctttgt tgggtggcaac tggaagtgt acggaacaaa agactcaatc 240
 agcaagcttg ttgctgcttg acatgcaa at ggag 274

<210> 1679
 <211> 247
 <212> DNA
 <213> Glycine max
 <220>
 <221> unsure
 <222> (1)..(247)
 <223> unsure at all n locations
 <400> 1679
 ctgtgttcct gtttttnttc ttcgatggcg gcaacctcaa catcactgga ntctcaactc 60
 tacattggcc tgcgcgcgcc ctgtctcaag ctcgattctt tcaattctca atctttctct 120

ctcttcgacc ctaatcttcg cctatccctc tctccacca aaccctcacg cgccgtcatc 180
gccatggccg gcaccgggaa gttctttgtt ggtggcaatg gaagtgtaac gcaacaaaag 240
actcaat 247

<210> 1680
<211> 241
<212> DNA
<213> Glycine max

<400> 1680

gttcctgttt ttgttcttcg atggcggcaa cctcaacatc actggcttct caactctaca 60
ttggcctgcg ccgcccctgc ctcaagctcg attctttcaa ttctcaatct ttctctctct 120
tcgaccctaa tcttcgccta tccctctctc caccctaaacc ctcacgcgcc gtcacgcgca 180
tggccggcac cgggaagttc tttgttggtg gcaactggaa gtgtaaggaa caaaagactc 240
a 241

<210> 1681
<211> 253
<212> DNA
<213> Glycine max

<400> 1681

cactgtgttg ctgtttttgt tcttcgatgg cggcaacctc aacatcactg gcttctcaac 60
tctacattgg cctgcgcgcg ccctgcctca agctcgattc tttcaattct caatctttct 120
ctctgttcga ccctaattct cgcctatccc tctctccacc caaacctca cgcgccgtca 180
tcgccatggc cggcacccgg aagttctttg ttggtggcaa ctggaagtgt aacgaaacaa 240
aagactcaat cag 253

<210> 1682
<211> 240
<212> DNA
<213> Glycine max

<400> 1682

ctcgagcggt ttgttcttcg atggcggcaa cctcaacatc actggcttct caactctaca 60
ttggcctgcg ccgcccctgc ctcaagctcg attctttcaa ttctcaatct ttctctctct 120

tcgaccctaa cttegcctat ccctctctcc acccaaacc tcacgcgcg tcacgcgcct 180
ggccggcacc gggaagttct ttgttggtgg caactggaag tgtaaggaac aaaagactca 240

<210> 1683
<211> 240
<212> DNA
<213> Glycine max

<400> 1683

gtgttcctgt ttttgttctt cgatggcggc aacctcaaca tcactggctt ctcaactcta 60
cattggcctg cgccgccctt gcctcaagct cgattctttc aattctcaat ctttctctct 120
cttcgaccct aatcttcgcc tatccctctc tccacccaaa ccctcacgcg ccgtcatcgc 180
catggccggc accgggaagt tctttgttgg tggcaactgg aagtgtaacg gaacaaaaga 240

<210> 1684
<211> 198
<212> DNA
<213> Glycine max

<400> 1684

ctgacttgaa cagtgcaca ttggagtctg atgttgatgt tgttggtgca cctccctttg 60
tgtacatcga tcaggtgaaa aactcaatta cagataggat tgaaatttct gcccagaatt 120
cttgggtggg aaaaggtggg gctttcacgg gagaaatcag tgtggagcaa ctaaaagacc 180
ttggctgcaa gtgggtta 198

<210> 1685
<211> 282
<212> DNA
<213> Glycine max

<400> 1685

ctcaattaca gataggattc agattttcac ctgatcgatg tacacaaagg gaggtgcaac 60
aacaacatca acatcagact ccaactgttg acctcccttt gtgtacatcg atcaggtgaa 120
aaactcaatt acagatagga ttgaacttct gcccagaatt cttgggtggg aaaaggtggg 180
gctttcacgg gagaaatcag attggagcaa ctaaaagacc ttggctgcaa gtgggctatt 240
cttggacatt ctgagcgcag acatgtaatt ggagcaaattg at 282

<210> 1686
 <211> 377
 <212> DNA
 <213> Glycine max

<400> 1686

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ctttctcttt ctctgtctgc ttcttcactt tctctcgttg gaatcgaaaa aaatcatggg 60
cagaaaattc ttcgtcgggtg gcaactggaa atgcaatggg accactgagg aggtgaagaa 120
gattgttact actttaaatg aagctaaagt ccctggagaa gatgttgtag aagttgttgt 180
gagccctcct tttgtgttcc ttccttttgt aaaaagtttg ctgcgccctg atttccatgt 240
ctcggcccaa aattgttggg ttcgcaaagg tgggtgcttat actggagagg ttagtgctga 300
aatgcttggt aatttgggaa ttccttgggt tattattggt cactctgaac ggaggcagct 360
tttgaatgaa tcaaattg                                     377
```

<210> 1687
 <211> 426
 <212> DNA
 <213> Glycine max

<400> 1687

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ccggggccgac ccaaacgtca gtacggctgc gagaagacaa cagaaggggg aacaagggtt 60
tctctttctc tttctctgtc tgcttcttca ctttctctcg tttcaatcga aaaaaatcat 120
gggcagaaaa ttcttcgtcg gtggcaactg gaaatgcaat gggaccactg aggaggtgaa 180
gaagattggt actactttaa atgaagctaa agtccttgga gaagatgttg tagaagttgt 240
tgtgagccct ccttttgtgt tccttccttt tgtaaaaagt ttgctgcgcc ctgatttcca 300
tgtctcggcc caaaattggt gggttcgcaa aggtggtgct tatactggag aggttagtgc 360
tgaaatgctt gttaatttgg gaattccttg gggtattatt ggtcactctg aacggaggca 420
gctttt                                     426
```

<210> 1688
 <211> 405
 <212> DNA
 <213> Glycine max

<220>
 <221> unsure

<222> (1)..(405)
 <223> unsure at all n locations
 <400> 1688
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 gcctatgcac ttcaacaagg tctaaaagtt attgcatgca ttggggagac tctcgaacag 120
 cgtgaagctg gtacaacaac ggctgttgtt tctgagcaaa caaaagcaat tgcagctaaa 180
 atatcaaatt gggacaatgt tgttttggcc tacgagccag tttgggcat tggaacagga 240
 aagggttgcta ctctgtctca ggctcaagag gtccatgctg atttgaggaa atgggttcat 300
 gacaatgtga gtgccgaagt tgctgcatct gtaagaatta tctatggagg ttctgtaaat 360
 ggaaganact gcaaaaaatt ggccgcacag cccgatgttg atgga 405

<210> 1689
 <211> 387
 <212> DNA
 <213> Glycine max

<400> 1689
 gtcacacgca gttgtattgt agaactgaac aagggtttct ctttctcttt ctctgtctgc 60
 ttcttcactt tctctcgttt caatcgaaaa aaatcatggg cagaaaattc ttcgtcgggtg 120
 gcaactggaa atgcaatggg accactgagg aggtgaagaa gattgttact actttaaatg 180
 aagctaaagt ccctggagaa gatgtttag aagttgttgt gagccctcct tttgtgttcc 240
 ttccttttgt aaaaagtttg ctgcgccctg atttccatgt ctcggcccaa aattgttggg 300
 ttcgcaaagg tggtgcttat actggagagg ttagtgctga aatgcttgtt aatttgggaa 360
 ttccttgggt tattattggt cactctg 387

<210> 1690
 <211> 419
 <212> DNA
 <213> Glycine max

<400> 1690
 ggtcgacgac gcgtccatac ggcagcgaga agacgacaga aggggactcg cagttgtatt 60
 gttgaacaag ggtttctctg tetgcttctt cactttctct cgtttcaatc gaaacaaaaa 120
 caaaaacatg ggcagaaaat tcttcgtcgg tggcaactgg aaatgcaatg ggaccactga 180

ggaggtaaag aagattgtta ctactttgaa tgaggctaaa gtccctggag aagatgtcgt 240
agaagttggt gtgagccctc cttttgtggt ccttcctggt gtaaaaagtt tgctgcgccc 300
tgatttccat gtttcggcac aaaactggtg ggttcgcaaa ggtggtgctt ataccggtga 360
ggttagtgtc gaaatgcttg ttaatttggg aattccttgg gttattattg gtcactctg 419

<210> 1691
<211> 400
<212> DNA
<213> Glycine max

<400> 1691

agacggctgc gagaagacga cagaaggggg cagttgtatt gttgaacaag ggtttctctg 60
tctgcttctt cactttctct cgtttcaatc gaaacaaaa caaaaacatg ggcagaaaat 120
tcttcgtcgg tggcaactgg aaatgcaatg ggaccactga ggaggtaaag aagattgtta 180
ctactttgaa tgaggctaaa gtccctggag aagatgtcgt agaagttggt gtgagccctc 240
cttttgtggt ccttcctggt gtaaaaagtt tgctgcgccc tgatttccat gtttcggcac 300
aaaactggtg ggttcgcaaa ggtggtgctt ataccggtga ggttagtgtc gaaatgcttg 360
ttaatttggg gattcccttg gggataatg gtcactctga 400

<210> 1692
<211> 367
<212> DNA
<213> Glycine max

<400> 1692

ccggctcgac ccacgagtaa gcccacgcgt ccgacggctg cgagaagacg acagaagggg 60
attgtagaac tgaacaaggg tttctctttc tctttctctg tctgcttctt cactttctct 120
cgtttcaatc gaaaaaaatc atgggcagaa aattcttcgt cggtaggcaac tggaaatgca 180
atgggaccac tgaggaggtg aagaagattg ttactacttt aaatgaagct aaagtccttg 240
gagaagatgt tgtagaagtt gttgtgagcc ctcttttgt gttccttctt tttgtaaaaa 300
gtttgctgcg ccctgatttc catgtctcgg cccaaaattg ttgggttcgc aaagggtggtg 360
cttatac 367

<210> 1693
 <211> 371
 <212> DNA
 <213> Glycine max

<400> 1693

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agacggctgc gagaagacga cagaaggggg cagttgtatt gttgaacaag ggtttctctg 60
tctgcttctt cactttctct cgtttcaatc gaaacaaaaa caaaaacatg ggcagaaaat 120
tcttcgtcgg tggcaactgg aaatgcaatg ggaccactga ggaggtaaag aagattgtta 180
ctactttgaa tgaggctaaa gtccctggag aagatgtcgt agaagttggt gtgagccctc 240
cttttgtggt ccttcctggt gtaaaaagtt tgctgcgccc tgatttccat gtttcggcac 300
aaaactgttg ggttcgcaaa ggtggtgctt ataccggtga ggtagtgct gaaatgcttg 360
ttaatttggg a 371
```

<210> 1694
 <211> 387
 <212> DNA
 <213> Glycine max

<400> 1694

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acgcccacgc gtccgtacgg ctgcgagaag acgacagaag gggattgtag aactgaacaa 60
gggtttctct ttctctttct ctgtctgctt cttcactttc tctcgtttca atcgaaaaaa 120
atcatgggca gaaaattctt cgtcgggtggc aactggaaat gcaatgggac cactgaggag 180
gtgaagaaga ttgttactac tttaaatgaa gctaaagtcc ctggagaaga tgttgtagaa 240
gttggttgta gccctccttt tgtgttcctt ctttttgtaa aaagtttgct gcgccctgat 300
ttccatgtct cggcccaaaa ttgttgggtt cgcaaagggtg gtgcttatac tggagaagtt 360
agtgtgaaa tgcttgtaa tttggga 387
```

<210> 1695
 <211> 384
 <212> DNA
 <213> Glycine max

<220>
 <221> unsure
 <222> (1)..(384)
 <223> unsure at all n locations

<400> 1695

gggccgagcc acgcgtccat acggatgcga gaagacgaca gaagggggta ttgtagaact 60

gaacaagggt ttctctttct ctttctctgt ctgcttcttc actttctctc gtttcaatcg 120

aaaaaaatca tgggcagaaa attcttcgtc ggtggcaact ggaaatgcaa tgggaccact 180

gaggaggtga agaagattgt tactacttta aatgaagcta aagtccttgga agaagatgtt 240

gtanaagttg ttgtgagccc tccttttgtg ttccttcctt ttgtaaaaag tttgctgcgc 300

cctgatttcc atgtctcggc ccaaaattgt tgggttcgca aaggtggtgc ttatactgga 360

gaagttagtg ctgaaatgct tggt 384

<210> 1696

<211> 265

<212> DNA

<213> Glycine max

<400> 1696

gataaagttg cctatgcact tcaacaaggc ctaaaagtta ttgcatgcat tggggagact 60

ctcgaacagc gtgaagctgg tacaacaacg gctgttgttt ctgagcaaac aaaagcaatt 120

gcagctaaaa tatcaaattg ggacaatgtc gttttggcct acgagccagt ttgggccatt 180

ggaacaggaa aggttgctac tcctgctcag gctcaagagg tccatgctga tttgaggaaa 240

tgggttcatg acaatgtgag tgctg 265

<210> 1697

<211> 421

<212> DNA

<213> Glycine max

<400> 1697

gttcgcaaag gtggtgctta tactggagag gttagtgtg gaatgcttgt taattgggga 60

attccttggg ttattattgg tcaactctgaa cggaggcagc ttttgaatga atcaaatgag 120

tttgtgggag ataaagttgc ctatgcactt caacaaggct tgaaagttat agcatgcatt 180

ggggaaactc ttgaacagcg tgaagctggc acaacaacgg ctgttggtgc tgagcaaaca 240

aaagcaattg cagctaaaat atcaaattgg gacaatgtcg ttttggccta tgagccagtt 300

tgggccattg gaacaggaaa ggttgcaact cctgctcatg ctcaagaggt tcatgctgat 360

ttaaggaaat gggttcatga caatgtgagt gctgaagttg ctgcatctgt aagaattatc 420

t 421

<210> 1698

<211> 325

<212> DNA

<213> Glycine max

<220>

<221> unsure

<222> (1)..(325)

<223> unsure at all n locations

<400> 1698

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tgaacaaggg tttctctgtc tgcttcttca ctttctctcg tttcaatcga aaccaaaca 120

aaaacatggg cagaaaattc ttcgtcgggtg gcaactggaa atgcaatggg accactgang 180

aggtaaagaa gattgttact actttgaatg aggctaaagt ccctggagaa gatgtcgtag 240

aagttgttgt gagccctcct tttgtgttcc ttctgtcgt aaaaagtttg ctgcgccctg 300

atttccatgt ttcggcacia aactg 325

<210> 1699

<211> 393

<212> DNA

<213> Glycine max

<220>

<221> unsure

<222> (1)..(393)

<223> unsure at all n locations

<400> 1699

aaaagacgac agaaagggaa tcccaatttg aatgggtaac aaagggttcc ccggccggct 60

cctcaacttc cccccgttcc aaccaaacc aaacaaaat catgggcaaa aaatcctccg 120

ccggtggcaa ctggaaatgc aatgggacca ctgaagaggt aaagaaaatt gttactactt 180

tgaatgacgc taaagtcctt ggagaagatg tcgtagaagt tgttgtgagc cctccttttg 240

tgttccttcc tgttgtanaa agtttgctgc gccctgattc ccatgtttcg gcacaaaact 300

gttgggttcg caaaagtggg gcttataccg gtgaggttag tgctgaaatg cttgttaatt 360

tggaattcc ttgggttatt attggtcact ctg 393

<210> 1700
 <211> 300
 <212> DNA
 <213> Glycine max

<400> 1700

tacggctgcg agaagacgac agaaggggac tgcagttgt attgttgaac aagggtttct 60
 ctgtctgctt cttcactttc tctcgtttca atcgaaacca aaacaaaaac atgggcagaa 120
 aattcttcgt cgggtggcaac tggaaatgca atgggaccac tggggaggta aagaagattg 180
 ttactacttt gaatgaggct aaagtccttg gagaagatgt cgtacaagtt gttgtgagcc 240
 ctctttttgt gttccttctt gttgtaaaaa gtttgctgcg ccttgatttc catgtttcgg 300

<210> 1701
 <211> 234
 <212> DNA
 <213> Glycine max

<400> 1701

agtacggctg cgagaagacg acagaagggg attgtagaac tgaacaaggg tttctctttc 60
 tctttctctg tctgcttctt cactttctct cgtttcaatc gaaaaaatc atgggcagaa 120
 aattcttcgt cgggtggcaac tggaaatgca atgggaccac tgaggagggtg aagaagattg 180
 ttactacttt aaatgaagct aaagtccttg gagaagatgt tgtacaagtt gttg 234

<210> 1702
 <211> 342
 <212> DNA
 <213> Glycine max

<400> 1702

cccacgcgtc cgtacggctg cgagaagacg acagaagggg ggtcacacgc agttgtattg 60
 tagaactgaa caagggtttc tctttctctt tctctgtctg cttcttcact ttctctcggt 120
 tcaatcgaaa aaaatcatgg gcagaaaatt cttcgtcggt ggcaactgga aatgcaatgg 180
 gaccactgag gaggtgaaga agattgttac tactttaaat gaagctaaag tccctggaga 240
 agatgttgta gaagttgttg tgagccctcc ttttgtgttc cttccttttg taaaaagttt 300

gctgcgccct gatttccatg tctccggcca aaattgttgg gt 342

<210> 1703
 <211> 354
 <212> DNA
 <213> Glycine max

<400> 1703

ctcgagccga atcggtctga gtgttgaaca agggtttctc tgtctgcttc ttcactttct 60
 ctcgtttcaa tcgaaaccaa aacaaaaaca tgggcagaaa attcttcgtc ggtggcaact 120
 ggaaatgcaa tgggaccact gaggaggtaa agaagattgt tactactttg aatgaggcta 180
 aagtccctgg agaagatgtc gtagaagttg ttgtgagccc tccttttgtg ttccttcctg 240
 ttgtaaaaag tttgctgcgc cctgatttcc atgtttcggc acaaaaactgt tgggttcgca 300
 aagggtggtgc ttataccggt gaggttagtg ctgaaatgct tgtaatttg ggaa 354

<210> 1704
 <211> 291
 <212> DNA
 <213> Glycine max

<400> 1704

cccaggcgtc cgtacggctg cgagaggacg acagaagggg gcagttgtat tgttgaacaa 60
 gggtttcgct gtctgcttct tcactttctc tcgtttcaat cgaaacgaaa acaaaaacat 120
 gggcagaaaa ttcttcgtcg gtggcaactg gaaatgcaat gggaccactg aggaggtaaa 180
 gaagattgtt acgactttga atgaggcgaa agtccctgga gaagatatcg tacaagttgt 240
 tgtgagccct ccttttgtgt tccttcctgt gggtaaaaagt ttgctgcgcc c 291

<210> 1705
 <211> 312
 <212> DNA
 <213> Glycine max

<400> 1705

tgaacaaggg tttctctttc tctttctctg tctgcttctt cactttctct cgtttcaatc 60
 gagggaaatc atgggcagaa aattcttcgt cggtggcaac tggaaatgca atgggaccac 120
 tgatgaggtg aagaagattg ttactacttt aaatgaagct aaagtccttg gagaagatgt 180

tgtagaagtt gttgtgagca ctcttttgt gttccttccg tttgtaaaaa gtttgctgcg 240
ccctgatttc catgtctcgg cccaaaattg ttgggtacgc ataggtgatg cttagactgg 300
agaagttagt gc 312

<210> 1706
<211> 395
<212> DNA
<213> Glycine max

<400> 1706

agtacggctg cgagaagacg acagaagggg atgagtttat agggaagaaa gctgcctatg 60
ctttgagcca aggtcttggg gtgattgcat gcattggaga attgttagaa gaaagggagg 120
ctggaaaaac ttttgatggt tgttttcagc aattgaaggc ttatgcagac gcagttgcta 180
gttgggacaa cattgttatt gcatatgaac ctgtatgggc cattggaacg ggcaaagtgg 240
ccactcccca acaagctcag gaagtacatg tagctgttcg ggattggcta aaaaagaatg 300
tctcagatga agttgcgtct aaaacacgaa ttatttatgg agggctctgta aatggaggca 360
acagtgctga actggcaaag caagaagata ttgat 395

<210> 1707
<211> 403
<212> DNA
<213> Glycine max

<400> 1707

agtacggctg cgagaagacg acagaagggg atgagtttat agggaagaaa gctgcctatg 60
ctttgagcca aggtcttggg gtgattgcat gcattggaga attgttagaa gaaagggagg 120
ctggaaaaac ttttgatggt tgttttcagc aattgaaggc ttatgcagac gcagttgcta 180
gttgggacaa cattgttatt gcatatgaac ctgtatgggc cattggaacg ggcaaagtgg 240
ccactcccca acaagctcag gaagtacatg tagctgttcg ggattggcta aaaaagaatg 300
tctcagatga agttgcgtct aaaacacgaa ttatttatgg agggctctgta aatggaagca 360
acagtgctga actggcaaag caagaagata ttgatggatt tct 403

<210> 1708
<211> 254
<212> DNA

<213> Glycine max
 <220>
 <221> unsure
 <222> (1)..(254)
 <223> unsure at all n locations
 <400> 1708
 cttttcttct ctctcaacaa cntcaccngt cttcctcctn gatcatgtcc nacttcaagg 60
 gcnagtacca tnntgagntg ntctnctatg ctgcgtacnt cnnactcct ggaaagggtta 120
 tttcttgctg ctgacgagtc aacagggaca acgggcaagc gttnggncag catcagagta 180
 gagaacattg aatccaacag gcgagctctt agggngcagn ctttactgc ccnngtgtnc 240
 ttcaatatct cant 254

<210> 1709
 <211> 283
 <212> DNA
 <213> Glycine max
 <220>
 <221> unsure
 <222> (1)..(283)
 <223> unsure at all n locations
 <400> 1709
 tcacatgttc ctaatagcca ccatgtcttc cttcaagcgc acattctcan atgagttgat 60
 tgccagtgtt acttatattg gcaccccgagg acttggtatg cttgcagctg atgagttaac 120
 cggcacaatt gggaaacggt tggcgagctt caacgtggag aatggtgaaa cgaacaggcg 180
 cattcttcgt gagctcctat tcaactgtcc cggttgtctt gagtgcctca gtggtgtcat 240
 cttgtttgag gaaaccctct accaaatata agctgcagga gta 283

<210> 1710
 <211> 268
 <212> DNA
 <213> Glycine max
 <400> 1710
 tcaagcctag cgtctctcaa ctcaacaatg ggtcttcttg acatcgtgca gccaggcgctc 60
 ctcaacggtg gggacgtcat gaaggtgtac aaatatgtc aggagcacia gtttgccatc 120

ccggccgtga acgtgacatc gtcgtcgacg acgaatgccg ctctgcaggc cgcccgcgac 180
atcaagtcgc ccatcatcat ccagacatca aatggcgggc cgcccttcta cgctggcaaa 240
ggtattgaca acaagaacca gaacgcct 268

<210> 1711
<211> 261
<212> DNA
<213> Glycine max

<400> 1711

ggacgagaac atccccaagg cgcaaagcgc gttgctggtg aggtgcaagg cgaattctga 60
ggctactctt ggaacttaca aggggggatgc cacgcttggg gaaggggctt ctgagtctct 120
tcatgttaag gattataagt actaagagag aggtgtgaga ttggttcttt tggaatggaa 180
ttgtttgttt ctttgggcct gttttggata ttcaagagtg tttttcaaaa aatttctact 240
gaaaaggaaa gaaattctcc a 261

<210> 1712
<211> 277
<212> DNA
<213> Glycine max

<220>
<221> unsure
<222> (1)..(277)
<223> unsure at all n locations

<400> 1712

cnnatctaca agggtaactc acagcttnct gatggtgcct cagagagcct ccatgtttcg 60
aactacagct actgatcaat cgaagttggn gttgtttgna ganactagtg cgagtaggan 120
tcggtatnat gggtaacnaca accgnatttc ttgttgataa gtantatngt ggntngactc 180
ttcccngaag nategnttgg nattnacngg atgtttntcca gtgnncctnn atggccantt 240
agtcatccag ggtgttggtg aactggcaac cnggaag 277

<210> 1713
<211> 276
<212> DNA
<213> Glycine max

<400> 1713

ctttaccagt cgacaacaga tggaaataaa tttgtggatt gcctccgcga tcagaacatt 60
 gtgcccggca tcaaagttga taagggtctg gtccctctgc cagggtcaaa caatgagtct 120
 tgggtgccaag ggctggatgg ttggcttcta ggtctgctga atactacaag caagggtgctc 180
 gatttgccaa gtggaggaca gttgttagca ttccatgtgg tccttctgca ttagctgtcc 240
 cggaagcagc gtgggggctt gcacgttatg ctgcta 276

<210> 1714
 <211> 256
 <212> DNA
 <213> Glycine max

<220>
 <221> unsure
 <222> (1)..(256)
 <223> unsure at all n locations

<400> 1714

agttcccagt attaactgat catatactta catttggtga aggacagatt aaatttgaag 60
 ataatgtgga tgaagtagtt tcncaaaatg gccacgcga cgttngnggn nttctagaac 120
 acacttcggt ntgttctct ctnttcttgg naagggtntt cttgctgctg atgagtcaac 180
 agggacaatt ggcaagcggt tgggcagcat cagtgtagag aacattgaat ccaacaggcg 240
 atctcttagg gagctg 256

<210> 1715
 <211> 191
 <212> DNA
 <213> Glycine max

<220>
 <221> unsure
 <222> (1)..(191)
 <223> unsure at all n locations

<400> 1715

ggctttatth gccaggtgca atgcaaactc acatgcaact ttgggaactt acnaaggtga 60
 tgctaccctt gctgagggtg cctccgagtc tctccatgtc naggactaca aatactaact 120
 aaagggtgtg acttctttaa tttggagaat ttttgacta ttggctacac cattctcatg 180
 ttcttccttc a 191

<210> 1716
 <211> 248
 <212> DNA
 <213> Glycine max

<400> 1716

tgcaatgcaa gctcacatgc aactttggga acttgcaaag gtggtgctac ccttgctgag 60
 ggtgcctctg agtctctcca tgtcaaggac tacaaatact aactaaaggt gttgacttct 120
 ttttaatttg agaatttttg cgctattggc tacaccattc tcatgttctt tccttcgtag 180
 aagttagact cggccgattt gctttctgct ctcggttata ggatgtctac ggattggggg 240
 gtaatcgc 248

<210> 1717
 <211> 263
 <212> DNA
 <213> Glycine max

<400> 1717

acaccaaatt aacaaagcct tctttttctt gtgtgatctc acaagcccct aaaggccacc 60
 atgtcttctt tcaagagcaa attccaagat gagttgattg ccaatgctag ttacattggc 120
 accccaggaa agggatatct tgcggctgac gagtcaacag ggacaattgg gaagcgtttg 180
 gcgagcatca acgtggagaa tgttgaaaca aacaggcgca ttcttcgtga gctcctattc 240
 actgcccctg gttgtcttga gcg 263

<210> 1718
 <211> 258
 <212> DNA
 <213> Glycine max

<400> 1718

cacaccaaatt taacaaagcc ttctttttct tgtgtgatct cacaagcccc taaaggccac 60
 catgtcttcc ttcaagagca aattccaaga tgagttgatt gccaatgcta gttacattgg 120
 caccacagga aacggtatcc ttgcggctga cgagtcaaca gggacaattg ggaagcgttt 180
 ggcgagcatc aacgtggaga atgttgaacc aaaaagggga atcctccgtg agctcctatt 240
 cactgcccct gggtgtct 258

<210> 1719
 <211> 337
 <212> DNA
 <213> Glycine max

<400> 1719

ctcaagtcca acctaccctt ttttcttctc ccaccaactt caccgtcttc ttctctgac 60
 atgtctcact tcaagggcaa gtaccatgat gagcttattg ccaatgctgc ttacattggc 120
 actcctggaa aggggtattct tgctgctgat gagtcaacag ggacaattgg caagcgtttg 180
 gccagcatca gtgtagagaa tgttgaatcc aacaggcgtg ctcttaggga gctgcttttc 240
 accgctcccg gtgctcttaa atatctcagt ggtgtcatcc tctttgagga aactctctac 300
 cagagcacag ctgcaggcaa gccctttgtg gaagtct 337

<210> 1720
 <211> 283
 <212> DNA
 <213> Glycine max

<400> 1720

cctcgatcat gtctcacttc aagggaagt accatgatga gcttatcgcc aatgctgcgt 60
 acattggcac tcctggaaag ggtattcttg ctgctgatga gtcaacaggg acaattggca 120
 agcgtttggc cagcatcagt gtagagaaca ttgaatccaa caggcgagct cttaggagac 180
 tgcttttcac tgctcctggg gttcttcaat atctcagtgg tgtcatcctc tttgaggaaa 240
 ccctctacca gagcacagct gcaggcaagc cctttgtgaa tgt 283

<210> 1721
 <211> 382
 <212> DNA
 <213> Glycine max

<220>
 <221> unsure
 <222> (1)..(382)
 <223> unsure at all n locations

<400> 1721

ctcccaccaa cttcaccgtc ttcttctctg atcatgtctc acttcaaggg caagtaccat 60

gatgagctta ttgccaatgc tgcttacatt ggcaattcct ggaaagggat tcttgctgct 120
gatgagtcaa cagggacaat tggcaagcgt ttggccagca tcagtgtaga gaatgttgaa 180
tccaacaggc gtgctcttag ggagctgctt ttcaccgctc ccggtgctct taaatatctc 240
agtgggtgtca tcctctttga ggaaactctc taccagagca cagctgcagg caagcccttt 300
gtggaagtct tgaaggagct ggtgtgcttc tggcacaagg tgaccaaggc nagttgactt 360
ctggantaat ggagaaccac at 382

<210> 1722
<211> 314
<212> DNA
<213> Glycine max

<400> 1722

aggagaatgg cctggttccc attgttgagc ctgagatcct tgttgatgga cctcatgaca 60
ttcacaagtg tgccgccgctc accgagcgtg tccttgcagc atgctacaag gctttgaatg 120
atcaccatgt ccttcttgag ggtaccctat tgaagccaaa catggtcacc cctggatccc 180
aatctgctaa ggtttcccct caggtgggtg ccgagcacac tgtcagagcc cttcagagaa 240
ccgtgcctgc tgcagttcct gctgtcggtt tcttgctctgg tggccagagt gaggaggagg 300
catccgtcaa cctc 314

<210> 1723
<211> 288
<212> DNA
<213> Glycine max

<400> 1723

ctgcgtacat tggcactcct ggaaagggta ttcttgctgc tgatgagtca acagggacaa 60
ttggcaagcg tttggccagc atcagtgtag agaacattga atccaacagg cgagctctta 120
gggagctgct tttcactgct cctgggtgtc ttcaatatct cagtgggtgc atcctctttg 180
aggaaaccct ctaccagagc acagctgcag gcaagccctt tgtgaatgtc ttgaaggaag 240
ctgggtgtgct tcctggcatc aaggttgaca agggcacagt cgagcttg 288

<210> 1724
<211> 279
<212> DNA

<213> Glycine max

<400> 1724

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ccatgatgag cttattgcc aatgctgctta cattggcact cctggaaagg gtattcttgc 60
tgctgatgag tcaacaggga caattggcaa gcgtttggcc agcatcagtg tagagaatgt 120
tgaatccaac aggcgtgctc ttagggagct gcttttcacc gctcccgggtg ctcttaaata 180
tctcagtggt gtcattctct ttgaggaaac tctctaccag agcacagctg caggcaagcc 240
ctttgtggaa gtcttgaagg aggctggtgt gcttcctgg 279
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<210> 1725

<211> 288

<212> DNA

<213> Glycine max

<220>

<221> unsure

<222> (1)..(288)

<223> unsure at all n locations

<400> 1725

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gagaatgttg aatccaacag gcgtgctctt agggagctgc ttttcaccgc tcccgggtgct 60
cttaaataatc tcagtgggtgt catcctcttt gaggaaactc tctaccagag cacagctgca 120
ggcaagccct ttgtggaagt cttgaaggag gctgggtgtgc ttcttggtcat caagggtgac 180
aaggggcanag ttgagcttgc tggcactaat ggagaaacca ccactcaggg tctagatggc 240
cttggtcagc gttgcgcaa gtactatgaa gccggtgcac gttttgcc 288
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<210> 1726

<211> 319

<212> DNA

<213> Glycine max

<220>

<221> unsure

<222> (1)..(319)

<223> unsure at all n locations

<400> 1726

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gaacgcctat ggcttgcgct agttacgctg tcatatgcc a ggagaatggc ctggttccca 60
ttggtgagcn tgagatcctn gttgatggac ctcacatgat tcacaagtgt gccgccgtca 120
```


ccgagcgtgt ccttgcagca tgctacaagg ctttgaatga tcacntgtc cttcttgagg 180
gtaccctatt gaagccnaac atggtcaccc ctggntccca atctgctaag gtttcccctc 240
aggtggttgc cgagcacact gtcagagccc ttcagagaac cgtgcctgct gcagttcctg 300
ctgtcgtttt ctngtctgg 319

<210> 1727
<211> 276
<212> DNA
<213> Glycine max

<400> 1727

cttcaagggc aagtaccatg atgagcttat cgccaatgct gcgtacattg gcaactcctgg 60
aaaggggtatt cttgctgctg atgagtcaac agggacaatt ggcaagcggt tggccagcat 120
cagtgtagag aacattgaat ccaacaggcg agctcttagg gagctgcttt tcaactgctcc 180
tggtgttctt caatatctca gtggtgtcat cctctttgag gaaaccctct accagagaca 240
gctgcaggca agccctttgt gaatgtcttg aaggaa 276

<210> 1728
<211> 263
<212> DNA
<213> Glycine max

<400> 1728

cgagctctta gggagctgct tttcactgct cctgggtgttc ttcaatatct cagtgggtgc 60
atcctctttg aggaaaccct ctaccagagc acagctgcag gcaagccctt tgtgaatgtc 120
ttgaaggaag ctggtgtgct tcctggcatc aaggttgaca agggcacagt cgagcttgct 180
ggaactaatg gagaaaccac cactcagggt ctagatggcc ttggtcagcg ttgtgccaa 240
tactacgaag ctggtgcacg ttt 263

<210> 1729
<211> 285
<212> DNA
<213> Glycine max

<400> 1729

tcaagggcaa gtaccatgat gagcttatcg ccaatgctgc gtacattggc actcctggaa 60

agggtattct tgctgctgat gagtcaacag ggacaattgg caagcgtttg gccagcatca 120
 gtgtagagaa cattgaatcc aacaggcgag ctcttaggga gctgcttttc actgctcctg 180
 gtgttcttca atatctcagt ggtgtcatcc tctttgagga aaccctctac cagagcacag 240
 ctgcaggcaa gccctttgtg aatgtcttga aggaagctgg tgtgc 285

<210> 1730
 <211> 278
 <212> DNA
 <213> Glycine max

<400> 1730

gggtattctt gctgctgatg agtcaacagg gacaattggc aagcgtttgg ccagcatcag 60
 tgtagagaat gttgaatcca acaggcgctgc tcttagggag ctgcttttca ccgctcccgg 120
 tgctcttaaa tatctcagtg gtgtcatcct ctttgaggaa actctctacc agagcacagc 180
 tgcaggcaag ccctttgtgg aagtcttgaa ggaggctggg gttcttcctg gcatcaaggt 240
 tgacaagggc acagttgagc ttgctggcac taatggag 278

<210> 1731
 <211> 265
 <212> DNA
 <213> Glycine max

<400> 1731

ctcttaggga gctgcttttc actgctcctg gtgttcttca atatctcagt ggtgtcatcc 60
 tctttgagga aaccctctac cagagcacag ctgcaggcaa gccctttgtg aatgtcttga 120
 aggaagctgg tgtgcttcct ggcacatcaagg ttgacaaggg cacagtcgag cttgctggaa 180
 ctaatggaga aaccaccact caggggtctag atggccttgg tcagcgttgt gccaaagtact 240
 acgaagctgg tgcacgtttt gccaa 265

<210> 1732
 <211> 264
 <212> DNA
 <213> Glycine max

<400> 1732

cgatcatgtc tcaacttcaag ggcaagtacc atgatgagct tattgccaat gctgcttaca 60

ttggcactcc tggaaaggggt attcttgctg ctgatgagtc aacagggaca attggcaagc 120
 gtttggccag catcagtgtg gagaatgttg aatccaacag gcgtgctctt agggagctgc 180
 ttttcaccgc tcccgggtgct cttaaataac tcagtgggtgt catcctcttt gaggaaactc 240
 tctaccagag cacagctgca ggca 264

<210> 1733
 <211> 349
 <212> DNA
 <213> Glycine max

<220>
 <221> unsure
 <222> (1)..(349)
 <223> unsure at all n locations

<400> 1733

tctagatggc cttgggtcagc gttgtgccaa gtgctacgaa gctgggtgcac gttttgccaa 60
 atggcggtgca gtgctgaaga ttgggtccaa cgagccatct gagctgtcta tccatgagaa 120
 cgnccatagg cttgggtaga tacgtgtgca tatgccagga gaatggcctg gttcccattg 180
 ttgagcctga gatccttggt gatggacctc atgacattca caagtgtgcc gccgtcaccg 240
 agcgtgtcct tgcagcatgc tacaaggctt gaatgatcac catgtccttc ttgagggtag 300
 ctatgaagcc aaaccatggt caccctggat cccaatctgt aagggtccc 349

<210> 1734
 <211> 273
 <212> DNA
 <213> Glycine max

<400> 1734

tgctgctgat gagtcaacag ggacaattgg caagcgtttg gccagcatca gtgtagagaa 60
 tgttgaatcc aacaggcgtg ctcttaggga gctgcttttc accgctcccg gtgctcttaa 120
 atatctcagt ggtgtcatcc tctttgagga aactctctac cagagcacag ctgcaggcaa 180
 gccctttgtg gaagtcttga aggaggctgg tgttcttcct ggcataaggg ttgacaaggg 240
 cacagttgag cttgctggca ctaatggaga aac 273

<210> 1735
 <211> 258

<212> DNA
 <213> Glycine max
 <400> 1735
 atcatgtctc acttcaaggg caagtaccat gatgagctta tcgccaatgc tgcgtacatt 60
 ggcactcctg gaaaggggtat tcttgctgct gatgagtcaa cagggacaat tggcaagcgt 120
 ttggccagca tcagtgtaga gaacattgaa tccaacaggc gagctcttag ggagctgctt 180
 ttcactgctc ctggtgttct tcaatattca gtggtgtcat cctctttgag gaaaccctct 240
 accagagtac agctgcag 258

<210> 1736
 <211> 267
 <212> DNA
 <213> Glycine max
 <400> 1736
 cttcaagggc aagtaccatg atgagcttat cgccaatgct gcgtacattg gcactcctgg 60
 aaaggggtatt cttgctgctg atgagtcaac agggacaatt ggcaagcgtt tggccagcat 120
 cagtgtagag aacattgaat ccaacaggcg agctcttagg gagctgcttt tcaactgctcc 180
 tgggtgttctt caatatctca gtggtgtcat cctctttgag gaaaccctct accagagcac 240
 agctgcaggc aagccctttg tgaatgt 267

<210> 1737
 <211> 259
 <212> DNA
 <213> Glycine max
 <400> 1737
 ggcgagctct tagggagctg cttttcactg ctcttggtgt ttttcaatat ctcaagtggg 60
 tcatcctctt tgaggaaacc ctctaccaga gcacagctgc aggcaagccc tttgtgaatg 120
 tcttgaagga agctggtgtg cttcctggca tcaaggttga caagggcaca gtcgagcttg 180
 ctggaactaa tggagaaacc accactcagg gtctagatgg ctttggtcag cgttgtgcc 240
 agtactacga agctggtgc 259

<210> 1738
 <211> 270

<212> DNA
<213> Glycine max

<400> 1738

tgcgtacatt ggcactcctg gaaagggtat tcttgctgct gatgagtcaa cagggacaat 60
 tggcaagcgt ttggccagca tcagtgtaga gaacattgaa tccaacaggc gagctcttag 120
 ggagctgctt ttcactgggc ctggtgttct tcaatatctc agtgggtgtca tcctctttga 180
 ggaaaccctc taccagagca cagctgcagg caagcccttt gtgaatgtct tgaaggaagc 240
 tgggtgtgctt cctggcatca aggttgacaa 270

<210> 1739
<211> 357
<212> DNA
<213> Glycine max

<220>
<221> unsure
<222> (1)..(357)
<223> unsure at all n locations

<400> 1739

gtccaacctt cccctttttc ttctcccacc aacttcaccg tnntcttctt cgatcatgtc 60
 tcactncaag ggcaagtacc atgatgagct tattgccaat gctgcttaca ttggcactcc 120
 tggaaagggg attcttgctg ctgatgagtc aacagggaca attggcaagc gtttggccag 180
 catcagtgtg gagaatgttg aatccaacag gcgtgctctt agggagctgc ttttcaccgc 240
 tcccgggtgct cttaaataac tcagtgggtg catcctcttt gaggaaatct ctaccagcac 300
 agctgcaggc aagccctttg tggaatcttg aaggaggctg gtgtgcttcc tggcatc 357

<210> 1740
<211> 255
<212> DNA
<213> Glycine max

<400> 1740

atcctctttt aggaaacctt ctaccagagc acagctgcag gcaagccctt tgtgaatgtc 60
 ttgaaggaag ctggtgtgct tcctggcatc aaggttgaca agggcacagt cgagcttgct 120
 ggaactaatg gagaaaccac cactcagggt ctagatggcc ttggtcagcg ttgtgccaag 180

tactacgaag ctggtgcacg ttttgccaaa tggcgtgcag tgctgaagat tggccccaac 240
gagccatctg agctg 255

<210> 1741
<211> 292
<212> DNA
<213> Glycine max

<400> 1741

atcctctttg aggaaaccct ctaccagagc acagctgcag gcaagccctt tgtgaatgtc 60
ttgaaggaag ctggtgtgct tcctggcatc aaggttgaca agggcacagt cgagcttgct 120
ggaactaatg gagaaaccac cactcagggt ctagatggcc ttggtcagcg ttgtgccaaag 180
tactacgaag ctggtgcacg ttttgccaaa tggcgtgcag tgctgaagat tggccccaac 240
gagccatctg agctgtctat cccatgagaa cgctatggct tggctagata cc 292

<210> 1742
<211> 292
<212> DNA
<213> Glycine max

<220>
<221> unsure
<222> (1)..(292)
<223> unsure at all n locations

<400> 1742

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gggcaagtac catgatgagc ttatcgccaa tgctgcgtac attggcactc ctggaaaggg 120
tattcttgct gctgatgagt caacagggac aattggcaag cgtttggcca gcatcagtgt 180
agagaacatt gaatccaaca ggcgagctct tagggagctg cttttcactg ctcttggtgt 240
tcttcaatat ctcagtgggtg tcctctctt tgaggaaacc ctctaccagg ng 292

<210> 1743
<211> 265
<212> DNA
<213> Glycine max

<400> 1743

gtggttgccg agcacactgt cagagccctt cagagaaccg tgcttgccgc agttctgtct 60

gtcgttttct tgtctggtgg ccagagtggaggaggcat ctgtcaacct caacgccatt 120
aaccaggtca atgggaagaa gccatggtca ctctctttct cttttggaag ggcacttcaa 180
cagagcaccc ttaaggcatg gggcggaataa gaagagaatg tgaagaaggc tcaggaagcc 240
cttttggtaa gagccaaggc taact 265

<210> 1744
<211> 262
<212> DNA
<213> Glycine max
<400> 1744

tgcagatgag cttatcgcca atgctgcgta cattggcact cctggaaagg gtattcttgc 60
tgctgatgag tcaacaggga caattggcaa gcgtttggcc agcatcagt tagagaacat 120
tgaatccaac aggcgagctc ttagggagct gcttttctact gctcctggtg ttcttcaata 180
tctcagtggg gtcacacctt ttgaggaaac cctctaccag agcacagctg caggcaagcc 240
ctttgtgaat gtcttgaagg aa 262

<210> 1745
<211> 266
<212> DNA
<213> Glycine max

<220>
<221> unsure
<222> (1)..(266)
<223> unsure at all n locations
<400> 1745

accatgatna gcttatcgcc aatgctgcgt acattggcac tcttggaag ggtattcttg 60
ctgctgatga gtcaacaggg acaattggca agcggtttggc cagnatcagt gtagagaaca 120
ttgaatccaa caggcgagct cttagggagc tgcttttctac tgctcctggt gttcttcaat 180
atctcagtgg tgtcatcctc tttgaggaaa ccctctacca gaggacagct gcangcaagc 240
cctttgtgaa tgtcttgaag ggagct 266

<210> 1746
<211> 276
<212> DNA

<213> Glycine max
 <400> 1746

ctggatccca atctgctaag gtttcccctc aggtggttgc cgagcacact gtcagagccc 60
 ttcagagaac cgtgcctgct gcagttcctg ctgtcggtttt cttgtctggt ggccagagtg 120
 aggaggaggc atccgtcaac ctcaacgcca ttaaccagggt caatgggaag aagccatggt 180
 cactctcttt ctcctttgga agggcacttc aacagagcac ccttaaggca tggggcgga 240
 cagaagagaa tgtgaagaag gctcaggaag cccttt 276

<210> 1747
 <211> 248
 <212> DNA
 <213> Glycine max
 <400> 1747

agggcaagta ccatgatgag cttatcgcca atgctgcgta cattggcact cctggaaagg 60
 gtattcttgc tgctgatgag tcaacaggga caattggcaa gcgtttggcc agcatcagtg 120
 tagagaacat tgaatccaac aggcgagctc ttagggagct gcttttcact gctcctggtg 180
 ttcttcaata tctcagtggg gtcacacctc ttgaggaaac cctctaccag agcacagctg 240
 caggcaag 248

<210> 1748
 <211> 300
 <212> DNA
 <213> Glycine max
 <400> 1748

ctctaaceta cctctttttc ttctctctca acaacttcac cttcttctc ctogatcatg 60
 tctcacttca agggcaagta ccatgatgag cttatcgcca atgctgcgta cattggcact 120
 cctggaaagg gtattcttgc tgctgatgag tcaacaggga caattggcaa gcgtttggcc 180
 agcatcagtg tagagaacat tgaatccaac aggcgagctc ttagggagct gcttttcact 240
 gctcctcgtg ttcttcaata tctcagtggg gtcacacctc ttgaggaaac cctctaccag 300

<210> 1749
 <211> 287
 <212> DNA

<213> Glycine max

<400> 1749

gaacgcctat ggcttggtta gttacgctgt catatgccag gagaatggcc tggttcccat 60
tggtgagcct gagatccttg ttgatggacc tcatgacatt cacaagtgtg ccgccgtcac 120
cgagcgtgtc cttgcagcat gctacaaggc ttgaatgac accatgtcct tcttgagggt 180
accctattga agccaaacat ggtcacccct ggatcccaat ctgctaaggt ttcccctcag 240
gtggttgccg agcacactgt cagagccctt cagagaaccg tgcctgc 287

<210> 1750

<211> 254

<212> DNA

<213> Glycine max

<400> 1750

ctttgaggaa accctctacc agagcacagc tgcaggcaag ccctttgtga atgtcttgaa 60
ggaagctggt gtgcttcttg gcatcaaggt tgacaagggc acagtcgagc ttgctggaac 120
taatggagaa accaccactc agggctctaga tggccttggt cagcgttgtg ccaagtacta 180
cgaagctggt gcacgttttg ccaaattggc tgcagtgtg aagattggtc ccaacgagcc 240
atctgagctg tcta 254

<210> 1751

<211> 267

<212> DNA

<213> Glycine max

<400> 1751

caacaacttc accttcttcc tctcgcata tgtctcactt caagggcaag taccatgatg 60
agcttatcgc caatgctgcg tacattggca ctctggaaa gggattctt gctgctgatg 120
agtcaacagg gacaattggc aagcgttttg ccagcatcag ttagagaaac attgaatcca 180
acaggcgagc tcttagggag ctgcttttca ctgctcctgg tgttcttcaa tatctcagtg 240
gtgtcactct ctttgaggaa acctct 267

<210> 1752

<211> 261

<212> DNA

<213> Glycine max
 <220>
 <221> unsure
 <222> (1)..(261)
 <223> unsure at all n locations
 <400> 1752
 cgatcatgtc tcacttcaag ggcaagtacc atgatgagct tattgtcaat gctgcttaca 60
 ttggcactcc tggaaagggt attcttgctg ctgatgagtc aacagggaca attggcaagc 120
 gtttggccag catcgtgtag agaatgttga atccaacagg cgtgctctta gggagctgct 180
 ttccaccgct cccggtgctc ttaaatactc cagtgggtgct atcctctttg aggaaactct 240
 ctaccagagn acagctgcag g 261

<210> 1753
 <211> 267
 <212> DNA
 <213> Glycine max
 <220>
 <221> unsure
 <222> (1)..(267)
 <223> unsure at all n locations
 <400> 1753
 gggaggaggc atccgtcaac ctcaacgcca ttaaccaggt caatgggaag aagccatggt 60
 cactctcttt ctcttttgga agggcacttc aacagagcac ccttaaggca tggggcggaa 120
 aagaagagaa tgtgaagaag gctcaggaag cccttttggt aagagccaag gctaactcag 180
 aggcaactct gggaacctac aagggttaact cacagcttgc tgatgggtgcc tcagagagcc 240
 tncatgtttc gaactacagc tactgat 267

<210> 1754
 <211> 260
 <212> DNA
 <213> Glycine max
 <400> 1754
 ggacaattgg caagcgtttg gccagcatca gtgtagagaa tggtgaatcc aacaggcgtg 60
 ctcttaggga gctgcttttc accgctcccc gtgctcttaa atatctcagt ggtgtcatcc 120

tctttgagga aactctctac cagagcacag ctgcaggcaa gccctttgtg gaagtcttga 180
aggaggctgg tgttcttcct ggcatcaagg ttgacaaggg cacagttgag cttgctggca 240
ctaattggaga aaccaccact 260

<210> 1755
<211> 289
<212> DNA
<213> Glycine max

<400> 1755

ctaacctacc tctttttctt ctctctcaac aacttcacct tcttctcct cgatcatgtc 60
tcacttcaag ggcaagtacc atgatgagct tatcgccaat gctgcgtaca ttggcactcc 120
tggaagggt attcttgctg ctgatgagtc aacagggaca attggcaagc gtttggccag 180
catcagtgtg gagaacattg aatccaacag gcgagctctt agggagctgc ttttactgc 240
tcctggtggt cttcaatatc tcagtgggtg catcctcttt gaggaacc 289

<210> 1756
<211> 265
<212> DNA
<213> Glycine max

<400> 1756

ctcttaggga gctgcttttc acgactcctg gtgttcttca atatctacag tgggtgcatc 60
ctctttgagg aaacctcta ccagagcaca gctgcaggca agccctttgt gaatgtcttg 120
aaggaagctg gtgtgcttcc tggcatcaag gttgacaagg gcacagtoga gcttgctgga 180
actaatggag aatccaccac tcagggtcta gatggccttg gtcagcgttg tgccaagtac 240
tacgaagctg gtgcacgttt tgcca 265

<210> 1757
<211> 238
<212> DNA
<213> Glycine max

<400> 1757

tctcagtggg gtcacctct ttgaggaaac cctctaccag agcacagctg caggcaagcc 60
ctttgtgaat gtcttgaagg aagctgggtg gcttctggc atcaaggttg acaagggcac 120

agtcgagctt gctggaacta atggagaaac caccactcag ggtctagatg gccttgggtca 180
gcgttctgcc aagtactacg aagctgggtgc acgttttggc aaatggcgtg cagtgcgtg 238

<210> 1758
<211> 280
<212> DNA
<213> Glycine max

<400> 1758

tacctctttt tcttctctct caacaacttc accttcttcc tcctcgatca tgtctcactt 60
caagggcaag taccatgatg agcttatcgc caatgctgcg tacattggca ctcttggaag 120
gggtattctt gctgctgatg agtcaacagg gacaattggc aagcgtttgg ccagcatcag 180
tgtagagaac attgaatcca acaggcgagc tcttagggag ctgcttttca ctgctcctgg 240
tggtcttcaa tatctcagtg gtgtcatcct ctttgaggaa 280

<210> 1759
<211> 256
<212> DNA
<213> Glycine max

<400> 1759

ccagcatcag tgtagagaat gttgaatcca acaggcgtgc tcttagggag ctgcttttca 60
ccgtccccgg tgctcttaaa tatctcagtg gtgtcatcct ctttgaggaa actctctacc 120
agagcacagc tgcaggcaag ccctttgtgg aagtcttgaa ggaggctggg gtgcttcttg 180
gcatcaaggt tgacaagggc acagttgagc ttgctggcac taatggagaa accaccactc 240
agggtctaga tggctt 256

<210> 1760
<211> 274
<212> DNA
<213> Glycine max

<400> 1760

tctttttctt ctctctcaac aacttcacct tcttctctct cgatcatgtc tcacttcaag 60
ggcaagtacc atgatgagct tatcgccaat gctgcgtaca ttggcactcc tggaaagggg 120
attcttgctg ctgatgagtc aacaggggaca attggcaagc gtttggccag catcagtgtg 180

gagaacattg aatccaacag gcgagctctt agggagctgc ttttactgc tcttgggtgt 240
 cttcaatatc tcagtgggtg catcctcttt gagg 274

<210> 1761
 <211> 250
 <212> DNA
 <213> Glycine max

<400> 1761

tggaagggt attcttgctg ctgatgagtc aacagggaca attggcaagc gtttggccag 60
 catcagtgtg gagaatcttg aatccaacag gcgtgctctt agggagctgc ttttcaccgc 120
 tcccgggtgct cttaaatatc tcagtgggtg catcctcttt gaggaactc tctaccagag 180
 cacagctgca ggcaagccct ttgtggaagt cttgaaggag gctgggtgttc ttctggcat 240
 caaggttgac 250

<210> 1762
 <211> 256
 <212> DNA
 <213> Glycine max

<400> 1762

ccatgatgag cttattgcca atgctgctta cattggcact cctggaaagg gtattcttgc 60
 tgctgatgag tcaacagga caattggcaa gcgtttgcca gcatcagtgt agagaatgtt 120
 gaatccaaca ggcgtgctct tagggagctg cttttcaccg ctcccgggtgc tcttaaatat 180
 ctcagtgggtg tcctcctctt tgaggaaact ctctaccaga gcacagctgc aggcaagccc 240
 tttgtggaag tcttga 256

<210> 1763
 <211> 295
 <212> DNA
 <213> Glycine max

<400> 1763

tctttttctt ctctctcaac aacttcacct tcttctctct cgatcatgtc tcacttcaac 60
 ggcaagtacc atgatgagct tatcgccaat gctgcgtaca ttggcactcc tggaaagggt 120
 attcttgctg ctgatgagtc aacagggaca attggcaagc gtttggccag catcagtgtg 180

gagaacattg aatccaacag gcgagctctt aggggcgcgc ttttactgc tcttggtgtt 240
 cttcaatatc tcagtgggtg catcctcttt gatgaaccct ctaccagagc acagc 295

<210> 1764
 <211> 269
 <212> DNA
 <213> Glycine max

<400> 1764

ctcgagccgc ttcttctctc tcgatcatgt ctacttcaa gggcaagtac catgatgagc 60
 tcatcgccaa tgctgcgtac attggcactc ctggaaaggg tattcttgct gctgatgagt 120
 caacagggac aattggcaag cgtttggcca gcatcagtgt agagaacatt gaatccaaca 180
 ggcgagctct tagggagctg cttttactg ctcttggtgt tttcaatat ctcagtgggtg 240
 tcctcctctt tgaggaaacc ctctaccag 269

<210> 1765
 <211> 252
 <212> DNA
 <213> Glycine max

<220>
 <221> unsure
 <222> (1)..(252)
 <223> unsure at all n locations

<400> 1765

ggcaagtaac atgatgagct tatcgccaat gctgcgtnc a tnggcactcc tgganagggt 60
 attcttgctg ctgatgagtc aacagggnc a attggcaagc gtttggccag natcagtgt a 120
 gagnacattg aatccaacag gcgagctctt agggagctgc ttttnactgc tcttggtgtt 180
 cttcaatatc tcagtgggtg catcctcttt gaggaaaccc tctaccagag cacagctgca 240
 ggcaagccct tt 252

<210> 1766
 <211> 256
 <212> DNA
 <213> Glycine max

<400> 1766

ggaggaggca tccgtcaacc tcaacgccat taaccaggtc aatgggaaga agccatggtc 60

actctctttc tcctttggaa gggcacttca acagagcacc ctttaaggcat ggggcggaaa 120
agaagagaat gtgaagaagg ctcaggaagc ccttttggtta agagccaagg ctaactcaga 180
ggcaactctg ggaacctaca agggtaactc acagcttgct gatggtgcct cagagagcct 240
ccatgtttcg aactac 256

<210> 1767
<211> 261
<212> DNA
<213> Glycine max
<400> 1767

ctcaggtggt tgccgagcac actgtcagag cccttcagag aaccgtgcct gctgcagttc 60
ctgctgtcgt tttcttgtct ggtggccaga gtgaggagga ggcacccgtc aacctcaacg 120
ccattaacca ggtcaatggg aagaagccat ggtcactctc tttctccttt ggaagggcac 180
ttcaacagag cacccttaag gcatggggcg gaaaagaaga gaatgtgaag aaggctcagg 240
aagccctttt ggtaagagcc a 261

<210> 1768
<211> 269
<212> DNA
<213> Glycine max
<400> 1768

attcacaagt gtgccgccgt caccgagcgt gtccttgag catgctacaa ggctttgaat 60
gatcaccatg tccttcttga gggtagccta ttgaagccaa acatgggtcac ccctggatcc 120
caatctgcta aggtttcccc tcaggtggtt gccgagcaca ctgtcagagc ccttcagaga 180
actgtgcctg ctgcagttcc tgctgtcgtt ttcttgtctg gtggccagag tgaggaggag 240
gcatccgtca acctcaacgc cattaacca 269

<210> 1769
<211> 294
<212> DNA
<213> Glycine max
<400> 1769

acctacctct ttttcttctc totcaacaac ttcacctctc tcctctctga tcatgtctca 60

cttcaagggc aagtaccatg atgagcttat cgccaatgct gcgtacattg gctctcctgt 120
gaaaggggtat tcttgctgct gatgagtcaa cagggacaat tggcaagcgt ttggccagca 180
tcagtgtaga gaacattgaa tccaacaggc gagctcttag ggagctgctt ttcactgctc 240
ctgggtgttct tcaatatctc agtgggtgtca tctcttttga ggaaacctct acca 294

<210> 1770
<211> 248
<212> DNA
<213> Glycine max

<400> 1770

tgaatccaac aggcgagctc ttagggagct gcttttctact gctcctgggtg ttcttcaata 60
tctcagtggg gtcctcctct ttgaggaaac cctctaccag agcacagctg caggcaagcc 120
ctttgtgaat gtcttgaagg aagctgggtg gcttcctggc atcaaggttg acaagggcac 180
agtcgagctt gctggaacta atggagaaac caggactcag ggtctagatg gccttgggtca 240
gcgttggtg 248

<210> 1771
<211> 267
<212> DNA
<213> Glycine max

<220>
<221> unsure
<222> (1)..(267)
<223> unsure at all n locations

<400> 1771

tggatctcat gacattcaca agtntgctgc cgtcaccgag cgtgtccttg cagcatgcta 60
caaggctttg aatgatcacc acgtccttct tgagggtacc ctattgaagc caaacatggg 120
caccctcgga tccaattctg ctaaggtttc ccctcaggtg gttgcggagc aactgttag 180
agcccttcag agaaccgtgc ctgctgcagt tcttgcctatc gttttcttgt ctgggtgggca 240
gagtgaggag gaggcacccg ttaacct 267

<210> 1772
<211> 285
<212> DNA

<213> Glycine max

<400> 1772

ctctaacctta cctcttttttc ttctctctca acaacttcac cttcttcttc ctcgatcatg 60
tctcacttca agggcaagta ccatgatgag cttatcgcca atgctgcgta cattggcact 120
cctggaaagg gtattcttgc tgctgatgag tcaacaggga caattggcaa gcgtttggcc 180
agcatcagtg tagagaacat tgaatccaac aggcgagctc ttagggagct gcttttctact 240
gtccttggtg ttcttcaata tctcagtggg gtcctcctct ttgag 285

<210> 1773

<211> 267

<212> DNA

<213> Glycine max

<400> 1773

ctgttagagc ccttcagaga accgtgcctg ctgcagttcc tgctatcggt ttcttgtctg 60
gtgggcagag tgaggaggag gcatccgta acctcaatgc cattaaccag gtcaatggaa 120
agaagccatg gtcactctct ttctcctttg gaagggcact tcaacagagc acccttaagg 180
catggagtgg aaaagaggag aatgtgaaga aggctcagga agcccttttg gtaagagcca 240
aggccaactc agaggcaact ctgggaa 267

<210> 1774

<211> 285

<212> DNA

<213> Glycine max

<400> 1774

tctaacctac ctctttttct tctctctcaa caacttcacc ttcttctctc tcgatcatgt 60
ctcacttcaa gggcaagtac catgatgagc ttatcgccaa tgctgcgtac attggcactc 120
ctggaaaggg tattcttgcg gctgatgagt caacaggga aattggcaag cgtttggcca 180
gcatcagtgt agagaacatt gaatccaaca ggcgagctct tagggagctg cttttcactg 240
ctcctgggtg tcttcaatat ctcagtggg tcatcctctt tgagg 285

<210> 1775

<211> 284

<212> DNA

<213> Glycine max

<400> 1775

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ctaacctacc tctttttctt ctctctcaac aacttcacct tcttctctct cgatcatgtc 60
tcacttcaag ggcaagtacc atgatgagct tatcgccaat gctgcgtaca ttggcactcc 120
tggaagggtt attcttgctg ctgatgagtc aacagggaca attggcaagc gtttggccag 180
catcagtgtg gagaacattg aatccaacag gcgagctctt agggagctgc ttttactgc 240
tcttggtgtt cttcaatatc tcagtgggtg catcctcttt gagg 284
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<210> 1776

<211> 261

<212> DNA

<213> Glycine max

<220>

<221> unsure

<222> (1)..(261)

<223> unsure at all n locations

<400> 1776

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gaggaggcat ccgttaacct caatgccatt aaccaggtca atggaaagaa gccatggtca 120
ctctctttct cctttggaag ggcacttcaa cagagcacco ttaaggcatg gagtggaaaa 180
gaggagaatg tgaagaaggc tcaggaagcc cttttggtaa gagccaaggc taactcagag 240
gcaactctgg gaactacaag g 261
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<210> 1777

<211> 274

<212> DNA

<213> Glycine max

<220>

<221> unsure

<222> (1)..(274)

<223> unsure at all n locations

<400> 1777

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tgcctnngc agttcctgct atcgttttct tgtctggtgg gcagagtgag gaggaggcat 60
ccgttaacct caatgccatn aaccaggtca atggaaagaa gccatggtca ctctctttct 120
```

cctttggaag ggcacttcaa gnagcaccct taaggcatgg agtggaaaag aggagaatgt 180
gaagaaggct caggaagccc ttttggttaag agccaaggcc aactcagagg caactctggg 240
aacctacaag ggtaactcaa agcttgctga tggg 274

<210> 1778
<211> 248
<212> DNA
<213> Glycine max

<400> 1778

gtctcacttc aagggaagt accatgatga gcttatcgcc aatgctgcgt acattggcac 60
tcttgggaacc ggtattcttg ctgctgatga gtcaacaggg acaattggca agcgtttggc 120
cagcatcagt gtagagaaca ttgaatcaa caggcgagct cttagggagc tgcttttcac 180
tgctcctggg gttcttcaat atctcagtgg tgcctcctc tttgaggaaa ccctctacca 240
gagcacag 248

<210> 1779
<211> 278
<212> DNA
<213> Glycine max

<400> 1779

aacctacctc tttttcttct ctctcaacaa cttcaccttc ttctctctcg atcatgtctc 60
acttcaaggg caagtaccat gatgagctta tcgccaatgc tgcgtacatt ggcactcctg 120
gaaaggggtat tcttgctgct gatgagtcaa cagggaacaat tggcaagcgt ttggccagca 180
tcagtgtaga gaacattgaa tccaacaggc gagctcttag ggagctgctt ttcactgctc 240
ctggtgttct tcaatatctc agtggtgtca tctctttt 278

<210> 1780
<211> 271
<212> DNA
<213> Glycine max

<400> 1780

ctctttttct tctctctcaa caacttcacc ttcttctctc tcgatcatgt ctcacttcaa 60
gggcaagtac catgatgagc ttatcgccaa tgctgcgtac attggcactc ctggaaaggg 120

tattcttgct gctgatgagt caacagggac aattggcaag cgtttggcca gcatcagtgt 180
agagaacatt gaatccaaca ggcgagctct tagggagctg cttttcactg ctcttggtgt 240
tcttcaatat ctcaagtggg tcatcctctt t 271

<210> 1781
<211> 273
<212> DNA
<213> Glycine max

<400> 1781

ctctttttct tctctctcaa caacttcacc ttcttctctc tcgatcatgt ctcaattcaa 60
gggcaagtac catgatgagc ttatcgccaa tgctgcgtac attggcactc ctggaaaggg 120
tattcttgct gctgatgagt caacagggac aattggcaag cgtttggcca gcatcagtgt 180
atagaacatt gaatccaaca ggcgagctct tagggagctg cttttcactg ctcttggtgt 240
tcttcaatat ctcaagtggg tcatcctctt tga 273

<210> 1782
<211> 238
<212> DNA
<213> Glycine max

<400> 1782

gaatccaaca ggcgagctct tagggagctg cttttcactg ctcttggtgt tcttcaatag 60
gtcagtggg tcatcctctt tgaggtaacc ctctaccaga gcacagctgc aggcaagccc 120
tttgtgaatg tcttgaagga agctgggtgt cttctgggca tcaaggttga caagggcaca 180
gtcgagcttg ctggaactaa tggagaaacc accactcagg gtctagatgg ccttggtc 238

<210> 1783
<211> 258
<212> DNA
<213> Glycine max

<400> 1783

aacagggaca attggcaagc gtttggcag catcagtgt gagaatgtt aatccaacag 60
gtgtgctctt agggagctgc ttttcaccgc tcccggtgct cttaaatac tcagtgggtgt 120
catcctcttt gaggaaactc tctaccagag cacagctgca ggcaagccct ttgtggaagt 180

cttgaaggag gctggtgtgc ttcttggcat caaggttgac aagggcacag ttgagcttgc 240
 tggcactaat ggagaaac 258

<210> 1784
 <211> 257
 <212> DNA
 <213> Glycine max

<400> 1784

attgaagcca aacatggtca cccttggatc ccaatctgct aaggtttccc ctcaggtggt 60
 tgccgagcac actgtcagag cccttcagag aacogtgcct gctgcagttc ctgctgtcgt 120
 tttcttgtct ggtggccaga gtgaggagga ggcattccgtc aacctcaacg ccattaacca 180
 ggtcaatggg aagaagccat ggtcactctc tttctccttt ggaagggcac ttcaacagag 240
 cacccttaag gcatggg 257

<210> 1785
 <211> 272
 <212> DNA
 <213> Glycine max

<400> 1785

cgagaaccgt gcttctgca gttcctgcta tcgttttctt gtctggtggg cagagtgagg 60
 aggaggcatc cgttaacctc aatgccatta accaggtcaa tggaaagaag ccatggtcac 120
 tctctttctc ctttggagg gcacttcaac agagcaccct taaggcatgg agtggaaaag 180
 aggagaatgt gaagaaggct caggaagccc ttttggttaag agccaaggcc aactcagagg 240
 caactctggg aactacaagg gtaatcaaag ct 272

<210> 1786
 <211> 273
 <212> DNA
 <213> Glycine max

<400> 1786

ctctttttct tctctctcaa caacttcacc ttcttctctc tcgatcatgt ctcaactcaa 60
 gggcaagtac catgatgagc ttatcgccaa tgctgcgtac attggcactc ctggaaaggg 120
 tattcttgct gctgatgagt caacagggac aattggcaag cgtttggcca gcatcagtg 180

agagaacatt gaatccaaca ggcgagctct tagggagctg cttttcactg ctcttggtgt 240
tcttcaatat ctcaagtgtg tcatcctctt tga 273

<210> 1787
<211> 270
<212> DNA
<213> Glycine max

<400> 1787

tgacattcac aagtgtgctg ccgtcaccga gcgtgtcctt gcagcatgct acaaggcttt 60
gaatgatcac cacgtccttc ttgagggtac cctattgaag ccaaacatgg tcacccccgg 120
atccaattct gctaggtttc ccctcaggtg gttgcggaga cactgttaga gcccttcaga 180
gaaccgtgcc tgctgcagtt cctgctatcg ttttcttgct tgggtgggcag agtgaggagg 240
aggcatccgt taacctcaat gccattaacc 270

<210> 1788
<211> 284
<212> DNA
<213> Glycine max

<220>
<221> unsure
<222> (1)..(284)
<223> unsure at all n locations

<400> 1788

gtgcctgctg cagttcctgc tatcgttttc ttgtctggtg ggcagagtga ggnggaggca 60
tccgttaacc ctnaangcca ttaaccaggt caatggaaag aagccatggt cactctcttt 120
ctcctttgga agggcacttc aacagagcac ccttaaggca tggagtggaa aagaggagaa 180
tgtgaagaag gctcaggaag cccttttggt aagagccaag gccaaactnag aggcaactct 240
gggaacctac aagggnatc aaagcntgct gatggtgcct caga 284

<210> 1789
<211> 268
<212> DNA
<213> Glycine max

<220>
<221> unsure
<222> (1)..(268)

<223> unsure at all n locations

<400> 1789

```
cttgctgctg atgagtcaac agggacaatt ggcaagcgtt tggccagcat cagtgtagag   60
aacattgaat ccaacaggcg agctcttagg gagctgcttt tctgtgctcc tgggtgttctt  120
caatatctca gtggtgtcat cctctttgag gaaacctctt accagagcac agctgcagga   180
cagnnctttg tgaatgtctt gaaggaagct ggtgtgcttc ctggcatcaa gggtgacaag  240
ggcacagtcg agcttgctgg aactaatg                                     268
```

<210> 1790

<211> 260

<212> DNA

<213> Glycine max

<400> 1790

```
gggtgacgga tgcctcctcc tcaacgccat taaccaggtc aatgggaaga agccatggtc   60
actctctttc tcctttggaa gggcacttca acagagcacc cttaaggcat ggggcggaaa  120
agaagagaat gtgaagaagg ctgaggaagc ctttttggtg agagccaagg ctaactcaga   180
ggcaactctg ggaacctaca agggtaactc acagcttgct gatgggtgcct cagagagcct  240
ccatgtttcg aactacagct                                     260
```

<210> 1791

<211> 264

<212> DNA

<213> Glycine max

<400> 1791

```
caacctaccc ctttttcttc tcccaccaac ttcaccgtct tcttctctga tcatgtctca   60
cttcaagggc aagtaccatg atgagcttat tgtcaatgct gcttacattg gcaactcctgg  120
aaagggtatt cttgctgctg atgagtcaac agggacaatt gcaagcgttt ggccagcatc  180
agtgtagaga atgttgaatc caacaggcgt gctcttaggg agctgctttt caccgctccc  240
ggtgctctta aatatctcag tggt                                     264
```

<210> 1792

<211> 260

<212> DNA

<213> Glycine max

<400> 1792

```
ctctctcaac aacttcacct tcttcctcct cgatcatgtc ttacttcaag ggcaagtacc 60
atgatgagct tatcgccaat gctgcgtaga ttggcactcc tggaaagggg attcttgctg 120
ctgatgagtc aacagggaca attggcaagc gtttggccag catcagtgtg gagaacattg 180
aatccaacag gcgagctctt agggagctgc ttttactgc tcctggtgtt cttcaatata 240
tcagtgggtg catcctcttt 260
```

<210> 1793

<211> 251

<212> DNA

<213> Glycine max

<220>

<221> unsure

<222> (1)..(251)

<223> unsure at all n locations

<400> 1793

```
ggaggaggca tccgtcaacc tcaacgccat tnaccagggtc aatgggaaga agccatgggc 60
actctctttc tcctttggaa gggcacntca acagagcacc cttaaggcnt ggggcggaag 120
agaagagaat gtgaagaagg ctcaggaagc ctttttggtg agagccaagg ctaactcaga 180
ggcaactctg ggaacctaca agggtaactc acagcttgct gatggtgcct cagagagcct 240
ccatgtttcg a 251
```

<210> 1794

<211> 286

<212> DNA

<213> Glycine max

<400> 1794

```
ctctcaagtc caacctaccc ctttttcttc tcccaccaac ttcaccgtct tcttcctcga 60
tcattgtctca cttcaagggc aagtaccatg atgagcttat tgtcaatgct gcttacattg 120
gcactcctgg aaagggtatt cttgctgctg atgagtcaac agggacaatt ggcaagcggt 180
tggccagcat cagtgtagag aatgttgaat ccaacaggcg tgctcttagg gagctgcttt 240
tcaccgctcc cggtgctctt aaatatctca gtggtgtcat cctctt 286
```


<210> 1795
 <211> 251
 <212> DNA
 <213> Glycine max

<400> 1795

gaatgcctat ggcttggcca gatacgtgt catatgccag gagaatggcc tggttcccat 60
 tgttgagcct gagatccttg ttgatggatc tcatgacatt cacaagtgtg ctgccgtcac 120
 cgagcgtgtc cttgcagcat gctacaaggc tttgaatgat caccacgtcc ttcttgaggg 180
 taccctattg aagccaaaca tggtcacccc cggatccaat tctgctaagg tttcccctca 240
 ggtggttgcg g 251

<210> 1796
 <211> 294
 <212> DNA
 <213> Glycine max

<220>
 <221> unsure
 <222> (1)..(294)
 <223> unsure at all n locations

<400> 1796

cnaacctctc aagtccaacc taccctttt tnttctccca ccaacttcac cgttcnnttc 60
 ctcgatcatg tctcacttca agggcaagta ccatgatgag cttattgtca atgctgctta 120
 cattggcact cctggaaagg gtattcttgc tgctgatgag tcaacaggga caattggcaa 180
 gcgtttggcc agcatcagt tagagaatgt tgaatccaac aggcgtgctc ttagggagct 240
 gcttttcacc gctcccggtg ctcttaaata tctcagtggg gtcacacctt ttga 294

<210> 1797
 <211> 300
 <212> DNA
 <213> Glycine max

<400> 1797

tcggcattcg gctcgatctc aagtccaacc taccctttt tcttctccca ccaacttcac 60
 cgtctttcttc ctcgatcatg tctcacttca agggcaagta ccatgatgag cttattgcc 120

atgctgctta cattggcact cctggaaagg gtattcttgc tgctgatgag tcaacaggga 180
 caattggcaa gcgtttggcc agcatcagt tagagaatgt tgaatccaac aggcgtgctc 240
 ttagggagct gcttttcacc gctcccgtg ctcttaaata tctcagtggg gtcctcctct 300

<210> 1798
 <211> 294
 <212> DNA
 <213> Glycine max

<400> 1798

tgacgacaga aggggttgcc gagcacactg tcagagccct tcagagaacc gtgcctgctg 60
 cagttcctgc tgcgttttc ttgtctggtg gccagagtga ggaggatgca tccgtcaacc 120
 tcaacgccat taaccaggtc aatgggaaga agccatggtc actctctttc tcctttggaa 180
 gggcacttca acagagcacc ctttaaggcat ggggcggaaa agaagagaat gtgaagaagg 240
 ctcaggaagc ccttttggtg agagccaagg ctaactcaga ggcaactctg ggaa 294

<210> 1799
 <211> 242
 <212> DNA
 <213> Glycine max

<400> 1799

ctcacttcaa gggcaagtac catgatgagc ttatcgccaa tgctgcgtac attggcactc 60
 ctggaaaggg tattcttgct gctgatgagt caacaggagc aattggcaag cgttttggcca 120
 gcatcagtgt agagaacatt gaatccaaca ggcgagctct tagggagctg cttttcactg 180
 ctctggtgt tcttcaatat ctcagtgggtg tcctcctctt tgaggaaacc ctctaccaga 240
 gc 242

<210> 1800
 <211> 269
 <212> DNA
 <213> Glycine max

<400> 1800

cacctacccc tttttcttct cccaccaact tcaccgtctt cttctctgat catgtctcac 60
 ttcaagggca agtaccatga tgagcttatt gccaatgctg cttacattgg cactcctgga 120

aagggtattc ttgctgctga tgagtcaaca gggacaattg gcaagcgttt ggccagcatc 180
 agtgtagaga atgttgaatc caacaggcgt gctcttaggg agctgctttt caccgctccc 240
 ggtgctctta catatctcag tgggtgcat 269

<210> 1801
 <211> 230
 <212> DNA
 <213> Glycine max

<400> 1801

ctcaggtggt tgccgagcac actgtcagag cccttcagag aaccgtgcct gctgcagttc 60
 ctgctgtcgt tttcttgtct ggtggccaga gtgaggagga ggcattccgtc aacctcaacg 120
 ccattaacca ggtcaatggg aagaagccat ggtcactctc tttctccttt ggaagggcac 180
 ttcaacagag cacccttaag gcatggggcg gaaaagaaga gaatgtgaag 230

<210> 1802
 <211> 246
 <212> DNA
 <213> Glycine max

<400> 1802

atacgtgtc atatgccagg agaatggcct ggttcccatt gttgagcctg agatccttgt 60
 tgatggacct catgacattc acaagtgtgc cgccgtcacc gagcgtgtcc ttgcagcatg 120
 ctacaaggct ttgaatgac accatgtcct tcttgagggt accctattga agccatacat 180
 ggtcaccctt ggatcccaat ctgctaaggt ttcccctcag gtggttgccg agcacactgt 240
 cagagc 246

<210> 1803
 <211> 262
 <212> DNA
 <213> Glycine max

<400> 1803

ctacaaggct ttgaatgac accatgtcct tcttgagggt accctattga agccaaacat 60
 ggtcaccctt ggatcccaat ctgctaaggt ttcccctcag gtggttgccg agcacactgt 120
 cagagccctt cagagaaccg tgccctgtgc agttcctgt gtcgttttct tgtctggtgg 180

ccagagtgag gaggaggcat cegtcaacct caacgccatt aaccaggtca atgggaagaa 240
gccatggtca ctctctttct cc 262

<210> 1804
<211> 280
<212> DNA
<213> Glycine max

<400> 1804

tctctcaaca acttcacctt cttcctctc gatcatgtct cacttcaagg gcaagtacca 60
tgatgagctt atcgccaatg ctgcgtacat tggcactcct ggaaagggtta ttcttgctgc 120
tgatgagtca acagggacaa ttggcaagcg ttggccagca tcagtgtaga gccattgaa 180
tccaacaggc gagctcttag ggagctgctt ttcactgctc ctggtgttct tcaatatctc 240
agtgggtgtca tcctctttga ggaaaccctc taccagagca 280

<210> 1805
<211> 294
<212> DNA
<213> Glycine max

<400> 1805

caacctctca agtccaacct accccttttt cttctccac caacttcacc gtcttcttcc 60
tcgatcatgt ctcacttcaa gggcaagtac catgatgagc ttattgcaa tgctgcttac 120
attggcactc ctggaaaggg tattcttgct gctgtgagtc aacagggaca attggcaagc 180
gtttggccag catcagtgtg gagaatgttg aatccaacag gcgtgctctt agggagctgc 240
ttttcaccgc tcccgtgct cttaaatac tcagtgggtg catcctcttt gagg 294

<210> 1806
<211> 290
<212> DNA
<213> Glycine max

<220>
<221> unsure
<222> (1)..(290)
<223> unsure at all n locations

<400> 1806

tctaacctac ctctttttct tctctctcaa caacttcacc ttcttctctc tcgatcatgt 60

ctncacttcc aagggaagt accatgatga gcttatcgcc aatgctgctg acattggcac 120
 tcctggaaag ggtattcttg ctgctgatga gtcaacaggg acaattggca agcgtttggc 180
 cagcatcagt gtagagaaca ttgaatccaa caggcgagct cttagggagc tgcttttcac 240
 tgctcctggg gttcttcaat atctcagtg tgctatcctc tttgaggaaa 290

<210> 1807
 <211> 266
 <212> DNA
 <213> Glycine max
 <400> 1807

acctacctct ttttcttctc tctcaacaac ttcaccttct tcctcctcga tcatgtctca 60
 cttcaagggc aagtaccatg atgagcttat cgccaatgct gcgtacattg gcactcctgg 120
 aaaggggtatt cttgctgctg atgagtcaac agggacaatt ggcaagcggt tggccagcat 180
 cagtgtagag aacattgaat ccaacaggcg agctcttagg gagctgcttt tcaactgctcc 240
 tggtgttctt caatatctca gtggtg 266

<210> 1808
 <211> 258
 <212> DNA
 <213> Glycine max
 <400> 1808

ctgagctggc tatccatgag aatgcctatg gcttggccag atacgctgtc atatgccagg 60
 agaatggcct ggttcccatt gttgagcctg agatccttgt tgatggatct catgacattc 120
 acaagtgtgc tgccgtcacc gagcgtgtcc ttgcagcatg ctacaaggct ttgaatgatc 180
 accacgtcct tcttgagggt accctattga agccaaacat ggtcaccccc ggatccaatt 240
 ctgctaaggt ttcccctc 258

<210> 1809
 <211> 279
 <212> DNA
 <213> Glycine max

<220>
 <221> unsure
 <222> (1) .. (279)

<223> unsure at all n locations

<400> 1809

```
aacctctaac ctacctcttt ttcttctctc tcaacaactt caccttcttc ctctctgac 60
atgtctcact tcaagggcaa gtaccatgat gagcttatcg ccaatgctgc gtacattggc 120
actcctggaa aggggtattct ngctgctgat gagtcaacag ggacaattgg caagcgtttg 180
gccagcatca gtgtagagaa cattgaatcc aacaggcgag ctcttaggga gctgcttttc 240
actgctcctg gtgttcttca atatctcagt ggtgtcatc 279
```

<210> 1810

<211> 244

<212> DNA

<213> Glycine max

<400> 1810

```
attgaagcca aacatgggtca cccttgatc ccaatctgct aaggtttccc ctcagggtgt 60
tgccgagcac actgtcagag cccttcagag aaccgtgcct gctgcagttc ctgctgtcgt 120
tttcttgtct ggtggccaga gtgaggagga ggcattccgtc aacctcaacg ccattaacca 180
ggtcaatggg aagaagccat ggtcactctc tttctccttt ggaagggcac ttcaacagag 240
cacc 244
```

<210> 1811

<211> 264

<212> DNA

<213> Glycine max

<400> 1811

```
cctctttttc ttctctctca acaacttcac cttcttctc ctgatcatg tctcatttca 60
agggaagta ccatgatgag cttatcgcca atgctgcgta cattggcact cctggaaagg 120
gtattcttgc tgctgatgag tcaacaggga caattggcaa gcgtttggcc agcatcagt 180
tagagaacat tgaatccaac aggcgagctc ttagggagct gcttttact gctcctggtg 240
ttcttcaata tctcagtggg gtca 264
```

<210> 1812

<211> 269

<212> DNA

<213> Glycine max
 <400> 1812

```

aacctacctc tttttcttct ctctcaacaa cttcaccttc ttctctctcg atcatgtctc 60
acttcaaggg caagtaccat gatgagctta tcgccaatgc tgcgtacatt ggcactcctg 120
gaaaggggat tcttgctgct gatgagtcaa cagggacaat tggcaagcgt ttggccagca 180
tcagtgtaga gaacattgaa tccaacaggc gagctcttag ggagctgctt ttcactgctc 240
ctggtgttct tcaatatctc agtggtgtc 269

```

<210> 1813
 <211> 268
 <212> DNA
 <213> Glycine max

<220>
 <221> unsure
 <222> (1)..(268)
 <223> unsure at all n locations

<400> 1813

```

cctctttttc ttctctctca acaacttcac cttctctctc ctgatcatg tctcacttca 60
agggcaagta ccatgatgag cttatcgcca atgctgcgta cattggcact cctggaaagg 120
gtattcttgc tgctgatgag tcaacaggga caattggcaa gcgtttggcc agcatcagtg 180
tagagaacat tgaatccaac aggcgagctc ttagggagct gcttttcaact gtccttggtg 240
ttcttcaata tctcagtggg gtcacctc 268

```

<210> 1814
 <211> 271
 <212> DNA
 <213> Glycine max

<400> 1814

```

aacctacctc tttttcttct ctctcaacaa cttcaccttc ttctctctcg atcatgtctc 60
acttcaaggg caagtaccat gatgagctta tcgccaatgc tgcgtacatt ggcactcctg 120
gaaagcgtat tcttgctgct gatgagtcaa cagggacaat tggcaagcgt ttggccagca 180
tcagtgtaga gaacattgaa tccaacaggc gagctcttag ggagctgctt ttcactgctc 240
ctggtgttct tcaatatctc agtggtgtca t 271

```

<210> 1815
 <211> 265
 <212> DNA
 <213> Glycine max

<400> 1815

gataccatg tccttcttga gggtaacctt ttgaagccaa acatgggtcac ccctggatcc 60
 caatctgcta aggtttcccc tcaggtgggt gccgagcaca ctgtcagagc ccttcagaga 120
 accgtgcctg ctgcagttcc tgctgtcgtt ttcttgtctg gtggccagag tgaggaggag 180
 gcatccgtca acctcaacgc cattaaccag gtcaatggga agaagccatg gtcactctct 240
 ttctcctttg gaagggcact tcaac 265

<210> 1816
 <211> 251
 <212> DNA
 <213> Glycine max

<400> 1816

ctgtcctggt tgttcttcaa tatctcagtt ctgtcatcct ctttgaggaa accctctacc 60
 agagcacagc tgcaggcaag ccctttgtga atgtcttgaa ggaagctggt gtgcttctct 120
 gcatcaaggt tgacaagggc acagtcgagc ttgctggaac taatggagaa accaccactc 180
 agggctctaga tggccttggt cagcgttggt ccaagtacta cgaagctggt gcacgttttg 240
 ccaaattggcg t 251

<210> 1817
 <211> 265
 <212> DNA
 <213> Glycine max

<400> 1817

gctcgaagcg caattggaca agcgtttggc cagcatcagt gtagagaaca ttgaatccaa 60
 caggcgagct cttagggagc tgcttttcac tgctcctggt gttcttcaat atctcagtgg 120
 tgatcatctc tttgaggaaa ccctctacca gagcacagct gcaggcaagc cctttgtgaa 180
 tgtcttgaag gaagctggtg tgcttctctg catcaagggt gacaagggca cagtcgagct 240
 tgctggaact aatggagaaa ccacc 265

<210> 1818
 <211> 264
 <212> DNA
 <213> Glycine max

<400> 1818

tctcgagccg attcggctcg aggtgcctgc tgcagttcct gctgacgttt tcttgctctgg 60
 aggccagagt gaggaggaga catccgtcaa cctcaacgcc attaaccagg tcaatgggaa 120
 gaagccatgg tcactctctt tctcctttgg aagggcactt caacagagca cccttaaggc 180
 atggggcgga aaagaagaga atgtgaagaa tgctcaggaa gcccttttgg taagagccaa 240
 ggctaactca gaggcaactc tggg 264

<210> 1819
 <211> 247
 <212> DNA
 <213> Glycine max

<220>
 <221> unsure
 <222> (1)..(247)
 <223> unsure at all n locations

<400> 1819

ctctcaacaa cttcaccttc ttctcctcgc atcatgtctc acttcaaggg caagtaccat 60
 gatgagctta tcgccaatgc tgcgtacatt ggcactcctg gaaagggnat tcttgctgct 120
 gatgagtcaa cagggacaat tggcaagcgt ttggccagca tcagtgtaga gaacattgaa 180
 tccaacaggc gagctcttag ggagctgctt ttcactgctc ctggtgttct tcaatatctc 240
 agtggtg 247

<210> 1820
 <211> 241
 <212> DNA
 <213> Glycine max

<400> 1820

attgaagcca aacatgggtca cccctggatc ccaatctgct aaggtttccc ctcagggtggt 60
 tgccgagcac actgtcagag cccttcagag aaccgtgcct gctgcagttc ctgctgtcgt 120

tttcttgtct ggtggccaga gtgaggagga ggcattccgtc aacctcaacg ccattaacca 180
 ggtcaatggg aagaagccat ggtcactctc tttctccttt ggaagggcac ttcaacagag 240
 c 241

<210> 1821
 <211> 267
 <212> DNA
 <213> Glycine max

<220>
 <221> unsure
 <222> (1)..(267)
 <223> unsure at all n locations

<400> 1821

aacctacctc tttttcttct ctctcaacaa cttcaccttc ttctctctcg atcatgtctc 60
 acttcaaggg caagtaccat gatgagctta tcgccaatgc tgcgtacatt ggcactcctg 120
 gaaaggggtat tcttgctgct gatgagtcaa cagggacaat tggcaagcgt ttggccagca 180
 tcagtgtaga gaacattgaa tccaacaggc gagctcttag ggagctgctt ttcactgctc 240
 ctggtgttcn tcaatatctc agtggtg 267

<210> 1822
 <211> 268
 <212> DNA
 <213> Glycine max

<400> 1822

gtccaacctc cccctttttc ttctcccacc aacttcaccg tcttcttctc cgatcatgtc 60
 tcacttcaag ggcaagtacc atgatgagct tattgccaat gctgcttaca ttggcactcc 120
 tggaaaggggt attcttgctg ctgatgagtc aacagggaca attggcaagc gtttggccag 180
 catcagtgtg gagaatgttg aatccaacag gcgtgctctt agggagctgc ttttcaccgc 240
 tcccgggtgct cttaaataac tcagtgtg 268

<210> 1823
 <211> 266
 <212> DNA
 <213> Glycine max

<400> 1823

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 ggaaagggta ttcttgctgc tgatgagtca acagggacaa ttggcaagcg tttggccagc 180
 atcagtgtag agaacattga atccaacagg cgagctctta gggagctgct tttcactgct 240
 cctggtgttc ttcaatatct cagtgg 266

<210> 1824
 <211> 259
 <212> DNA
 <213> Glycine max

<400> 1824

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 tattcttgct gctgatgagt caacagggac aattggcaag cgtttggcca gcatcagtgt 180
 agagaacatt gaatccaaca ggcgagctct tagggagctg cttttcactg ctctggtgt 240
 tcttcaatat ctcagtgg 259

<210> 1825
 <211> 249
 <212> DNA
 <213> Glycine max

<400> 1825

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 gagtcaacag ggacaattgg caagcgtttg gccagcatca gtgtagagaa cattgaatcc 180
 aacaggcgag ctcttaggga gctgcttttc actgctcctg gtgttcttca atatctcagt 240
 ggtgtcatc 249

<210> 1826
 <211> 272
 <212> DNA
 <213> Glycine max

<400> 1826

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atctgagctg tctatccatg agaacgccta tggcttggt agatacgctg tcatatgccca 120
ggagaatggc ctggttccca ttgttgagcc tgagatcctt gttgatggac ctcatgacat 180
tcacaagtgt gccgccgtca ccgagcgtgt ccttgcagca tgctacaagg ctttgaatga 240
tcaccatgtc cttcttgagg gtaccctatt ga 272

<210> 1827
<211> 253
<212> DNA
<213> Glycine max

<400> 1827

gaacattgaa tccaacaggc gagctcttag ggagctgctt ttcactgctc ctggtgttct 60
tcaatatctc agtgggtgtca tcctctttga ggaaaccctc taccagagca cagctgcagg 120
caagcccttg tgaatgtctt gaaggaagct ggtgtgcttc ctggcatcaa ggttgacaag 180
ggcacagtgc agcttgctgg aactaatgga gacaccacca ctcagggtct agcatggctt 240
agtcagcgtt gtg 253

<210> 1828
<211> 258
<212> DNA
<213> Glycine max

<400> 1828

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tcaagggcaa gtacatgat gagcttatcg ccaatgctgc gtacattggc actcctggaa 120
agggtattct tgctgctgat gagtcaacag ggacaattgg caagcgtttg gccagcatca 180
gtgtagagaa cattgaatcc aacaggcgag ctcttaggga gctgcttttc actgctcctg 240
gtgttcttca atatctca 258

<210> 1829
<211> 248
<212> DNA
<213> Glycine max

<400> 1829

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acattcacia gtgtgccgcc gtcaccgagc gtgtccttgc agcatgctac aaggctttgg 120
gtgatcaccg tgtccttctt gagggtagcc tattgaagcc aaacatgggtc acccctggat 180
cccagtctgc taagggtttcc cctcaggtgg ttgccgagca cactgtcaga gcccttcaga 240
gaaccgtg 248

<210> 1830
<211> 237
<212> DNA
<213> Glycine max

<400> 1830

attgaagcca aacatgggtca cccctggatc ccaatctgct aagggtttccc ctcaggtgggt 60
tgccgagcac actgtcagag cccttcagag aaccgtgcct gctgcagttc ctgctgtcgt 120
tttcttgtct ggtggccaga gtgaggagga ggcacccgtc aacctcaacg ccattaacca 180
ggtcaatggg aagaagccat ggtcactctc tttctccttt ggaagggcac ttcaaca 237

<210> 1831
<211> 248
<212> DNA
<213> Glycine max

<400> 1831

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cccctcaggt ggttgccgac aactgttag agcccttcag agaaccgtgc ctgctgcagt 120
tcctgctatc gttttcttgt ctggtgggca gagtgaggag gaggcacccg ttaacctcaa 180
tgccattaac caggtcaatg gaaagaagcc atgggtcactc tctttctcct ttggaagggc 240
acttcaac 248

<210> 1832
<211> 252
<212> DNA
<213> Glycine max

<400> 1832

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caacagggac aattggcaag cgtttggcca gcatcagtgt agagaatggt gaatccaaca 120
ggcgtgctct tagggagctg cttttcaccg ctcccgggtgc tcttaaataat ctcagtgggtg 180
tcatcctctt tgaggaaact ctctaccaga gtacagctgc aggcaacccc tttgtggaac 240
tcttgaagga gg 252

<210> 1833
<211> 264
<212> DNA
<213> Glycine max

<400> 1833

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tcacttcaag ggcaagtacc atgatgagct tatcgccaat gctgcgtaca ttggcactcc 120
tggaagggtt attcttgcgt ctgatgagtc aacagggaca attggcaagc gtttggccag 180
catcagtgtg gagaacattg aatccaacag gcgagctctt agggagctgc ttttactgc 240
tcttgggtgtt cttcaatatc tcag 264

<210> 1834
<211> 253
<212> DNA
<213> Glycine max

<400> 1834

gccgtcaccg agcgtgtcct tgcagcatgc tacaaggctt tgaatgatca ccatgtcctt 60
cttgagggtg ccctattgaa gccaaacatg gtcacccctg gatcccaatc tgctaagggtt 120
tcccctcagg tggttgccga gcacactgtc agagcccttc agagaaccgt gcctgctgca 180
gttctgtctg tcgttttctt gtctggtggc cagagtgagg aggaggcatc cgtcaacctc 240
aacgccatta acc 253

<210> 1835
<211> 280
<212> DNA
<213> Glycine max

<400> 1835

ctcaagtcca acctaccctt ttttcttctc ccaccaactt caccgtcttc ttctcgatc 60

atgtctcact tcaagggcaa gtacatgat gagcttattg ccaatgctgc ttacattggc 120
actcctggaa agggatttct tctgctgatg agtcaacagg gacaattggc aagcgtttgg 180
ccagcatcag tgtagagaat gttgaatcca acaggcgtgc tcttagggag ctgcttttca 240
ccgctccccg tgctcttaaa tatctcagtg gtgtcatcct 280

<210> 1836
<211> 258
<212> DNA
<213> Glycine max

<400> 1836

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ttcttgctgc tgatgagtca acagggacaa ttggcaagcg tttggccagc atcagtgtag 180
agaacattga atccaacagg cgagctctta gggagctgct tttcactgct cctggtgttc 240
ttcaatatct cagtgggtg 258

<210> 1837
<211> 242
<212> DNA
<213> Glycine max

<400> 1837

acttcacctt ctctctctc gatcatgtct cacttcaagg gcaagtacca tgatgagctt 60
atcgccaatg ctgcgtacat tggcactcct ggaaagggta ttcttgctgc tgatgagtca 120
acagggacaa ttggcaagcg tttggccagc atcagtgtag agaacattga atccaacagg 180
cgagctctta gggagctgct tttcactgct cctggtgttc ttcaatatct cagtgggtgc 240
at 242

<210> 1838
<211> 252
<212> DNA
<213> Glycine max

<400> 1838

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agggcaagta ccatgatgag cttatcgcca atgctgcgta cattggcact cctggaaagg 120
gtattcttgc tgctgatgag tcaacagggg caattggcaa gcgtttggcc agcatcagtg 180
tagagaacat tgaatccaac aggcgagctc ttagggagct gcttttcact gctcctggtg 240
ttcttcaata tc 252

<210> 1839
<211> 272
<212> DNA
<213> Glycine max

<220>
<221> unsure
<222> (1)..(272)
<223> unsure at all n locations

<400> 1839

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aaaggggtatt cttgctgctg atgagtcaac agggacaatt ggcaagcggt tggccagcat 180
cagtgtagag aacattgaat ccaacaggcg agctcttagg gagctgcttt nactgctcc 240
tggtgntctt caatatctca ggtgtcatcc tc 272

<210> 1840
<211> 246
<212> DNA
<213> Glycine max

<400> 1840

atcaccatgt ccttcttgag ggtaccctat tgaagccaaa catggtcacc cctggatccc 60
aatctgctaa ggtttcccct caggtgggtg ccgagcacac tgtcagagcc cttcagagaa 120
ccgtgcctgc tgcagttcct gctgtcggtt tcttgtctgg tggccagagt gaggaggagg 180
catccgtcaa cctcaacgcc attaaccagg tcaatgggaa gaagccatgg tcaactctctt 240
tctcct 246

<210> 1841
<211> 252
<212> DNA

<213> Glycine max

<400> 1841

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gggcaagtac catgatgagc ttatcgccaa tgctgcgtac attggcactc ctggaaaggg 120
tattcttgct gctgatgagt caacaggac aattggcaag cgtttgcca gcatcagtgt 180
agagaacatt gaatccaaca ggcgagctct tagggagctg cttttcactg ctcttggtgt 240
tcttcaatat ct 252
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<210> 1842

<211> 251

<212> DNA

<213> Glycine max

<400> 1842

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gcaagtacca tgatgagctt attgccaatg ctgcgtacat tggcactcct ggaaagggta 120
ttcttgctgc tgatgagtca acagggacaa ttggcaagcg tttggccagc atcagtgtag 180
agaacattga atccaacagg cgagctctta gggagctgct tttcactgct cctggtgttc 240
ttcaatatct c 251
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<210> 1843

<211> 266

<212> DNA

<213> Glycine max

<220>

<221> unsure

<222> (1)..(266)

<223> unsure at all n locations

<400> 1843

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ttcttgctgc tgntgagtca acanggacaa ttggcaagcg tttggccagc atcagtgtan 180
agaatgttga ntccaacagg cgtgctctta gggagctgct tttncctgct cccggtgctc 240
ttaaatatct cagtgtgtc atctc 266
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<210> 1844
 <211> 258
 <212> DNA
 <213> Glycine max

<400> 1844

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 ttcttgctgc tgatgagtca acagggacaa ttggcaagcg tttggccagc atcagtgtag 180
 agaacattga atccagcagg cgagctctta gggagctgct tttcactgct cctggtgttc 240
 attcatatct caggggtgt 258

<210> 1845
 <211> 265
 <212> DNA
 <213> Glycine max

<400> 1845

caagtccaac ctaccccttt ttcttctccc accaacttca cegtcttctt cctcgatcat 60
 gtctcacttc aagggaagt accatgatga gcttattgtc aatgctgctt acattggcac 120
 tcctggaaag ggtattcttg ctgctgatga gtcaacaggg acaattggca agcgtttggc 180
 cagcatcagt gtagagaatg ttgaatccaa caggcgtgct cttagggagc tgcttttcac 240
 cgctcccggt gctcttaa atctc 265

<210> 1846
 <211> 278
 <212> DNA
 <213> Glycine max

<400> 1846

ttccaacctc tcaagtccaa cctacccctt tttcttctcc caccaacttc accgtcttct 60
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 tacattggca ctctggaaa gggtttcttg ctgctgatga gtcaacaggg acaattggca 180
 agcgtttggc cagcatcagt gtagagaatg ttgaatccaa caggcgtgct cttagggagc 240
 tgcttttcac cgctcccggt gctcttaa atctcagt 278

<210> 1847
 <211> 277
 <212> DNA
 <213> Glycine max

<400> 1847

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 ctctggatc agggatttct tgctgctgat gagtcaacag ggacaattgg caagcgtttg 180
 gccagcatca gtgtagagaa tgttgaatcc aacaggcggtg ctcttaggga gctgcttttc 240
 accgctcccg gtgctcttaa atatctcagt ggtgtca 277

<210> 1848
 <211> 224
 <212> DNA
 <213> Glycine max

<400> 1848

cgggtattct tgctgctgat gagtcaacag ggacaattgg caagcgtttg gccagcatca 60
 gtgtagagaa tgttgaatcc aacaggcggtg ctcttaggga gctgcttttc accgctcccg 120
 gtgctcttaa atatctcagt ggtgtcatcc tctttgagga aactctctac cagagcacag 180
 ctgcaggcaa gccctttctg gaagtcttga aggaggtggtg tgtg 224

<210> 1849
 <211> 238
 <212> DNA
 <213> Glycine max

<400> 1849

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 aagtaccatg atgagcttat tgccaatgct gcttacattg gcactcctgg aaagggattt 120
 cttgctgctg atgagtcaac agggacaatt ggcaagcggt tggccagcat cagtgtagag 180
 aatgttgaat ccaacaggcg tgctcttagg gagctgcttt tcaccgctcc cggtgctc 238

<210> 1850
 <211> 265

<212> DNA
 <213> Glycine max
 <400> 1850
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 actcctggaa agggtattct tgctgctgat gagtcaacag ggacaattgg caagcgtttg 180
 gccagcatca gtgtagagaa tgttgaatcc aacaggcgtg ctcttaggga gctgcttttc 240
 accgctcccg gtgctcttaa atatc 265

<210> 1851
 <211> 271
 <212> DNA
 <213> Glycine max
 <400> 1851
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 aaaggggtatt cttgctgctg atgagtcaac agggacaatt ggcaagcgtt tggccagcat 180
 cagtgtagag aacattgaat ccaacaggcg agctcttagg gagctgcttt tcaactgctcc 240
 tgggtgttctt caatattcag tgggtgtcatc c 271

<210> 1852
 <211> 261
 <212> DNA
 <213> Glycine max
 <400> 1852
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 gagggtagcc tattgaagcc aaacatgggc accctggatc ccaatctgct aaggtttccc 120
 ctcaggtggc tgcgagcaca ctgtcagagc cttcagaga accgtgctg ctgcagttcc 180
 tgctgtcgtt ttcttgtctg gtggccagag tgaggaggag gcatccgtca acctcaacgc 240
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<210> 1853
 <211> 261

<212> DNA
 <213> Glycine max

 <220>
 <221> unsure
 <222> (1)..(261)
 <223> unsure at all n locations

 <400> 1853

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 attggcactc ctggaaaggg tattcttgct gctgatgagt caacagggac aattggcaag 180
 cgtttgcca gcatcagtgt agagaatgtt gaatccaaca ggcgtgctct tagggagctg 240
 cttttcaccg ctcccgtgc t 261

<210> 1854
 <211> 240
 <212> DNA
 <213> Glycine max

 <400> 1854

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 ctgatgagtc aacagggaca attggcaagc gtttgccag catcagtgtg gagaatattg 180
 aatccaacag gcgagctctt agggagctgc ttttactgc tctggtctt cttcaatatt 240

<210> 1855
 <211> 234
 <212> DNA
 <213> Glycine max

 <400> 1855

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 aacaggcgag ctcttaggga gctgcttttc actgctcctg gtgttcttca atatctcagt 120
 ggtgtcatcc tctttgagga aaccctctac cagaggacag ctgcaggcaa gccctttgtg 180
 aatgtcttga aggaagctgg tgtgcttcct ggcataagg ttgacaaggg caca 234

<210> 1856

<211> 261
 <212> DNA
 <213> Glycine max

 <400> 1856

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 actcctggaa agggatttct tgctgctgat gagtcaacag ggacaattgg caagcgtttg 180
 gccagcatca gtgtagagaa tgttgaatcc aacaggcgtg ctcttaggga gctgcttttc 240
 accgctcccg gtgctcttaa a 261

<210> 1857
 <211> 260
 <212> DNA
 <213> Glycine max

 <400> 1857

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 actcctggaa agggatttct tgctgctgat gagtcaacag ggacaattgg caagcgtttg 180
 gccagcatca gtgtagagaa tgttgaatcc aacaggcgtg ctcttaggga gctgcttttc 240
 accgctcccg gtgctcttaa 260

<210> 1858
 <211> 242
 <212> DNA
 <213> Glycine max

 <220>
 <221> unsure
 <222> (1)..(242)
 <223> unsure at all n locations

 <400> 1858

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 ccctcaggtg gttgccgagc aactgtcag agcccttcag agaaccgtgc ctgctgcagt 180
 tcctgctgtc gntttcttgt ctggtggcca gagtgaggag gaggcacccg tcaacctcaa 240

cg

242

<210> 1859
<211> 266
<212> DNA
<213> Glycine max

<400> 1859

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aaaggggtatt cttgctgctg atgagtcaac agggacaatt ggcaagcggt tggccagcat 180
cagtgtagag aacattgaat ccaacaggcg agctcttagg gagctgcttt tcaactgctcc 240
tggtgttctt caatatctca gtggtg 266

<210> 1860
<211> 260
<212> DNA
<213> Glycine max

<400> 1860

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aagtaccatg atgagcttat cgccaatgct gcgtacattg gcactcctgg aaaggggtact 120
cttgctgctg atgagcaaca gggacaattg gcaagcggtt ggccagcatc agtgtagaga 180
accttgaatc caacaggcga gctcttaggg agctgctttt cactgctcct ggtgttcttc 240
aatatctcag tgggtgcac 260

<210> 1861
<211> 264
<212> DNA
<213> Glycine max

<400> 1861

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cctggaaagg gtattttgct gctgatgagt caacaggggac aattggcaag cgtttggcca 180
gcatcagtgt agagaacatt gaatccaaca ggcgagctct tagggagctg cttttcactg 240

ctcctgggtgt tcttcaatat ctca 264

<210> 1862
<211> 256
<212> DNA
<213> Glycine max

<400> 1862

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tggaagggt attcctgctg ctgatgagtc aacagggaca attggcaagc gtttggccag 180
catcagtgtg gagaatgttg aatccaacag gcgtgctctt agggagctgc ttttcaccgc 240
tcccgggtgct cttaaa 256

<210> 1863
<211> 256
<212> DNA
<213> Glycine max

<400> 1863

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aagggtattc ttctgctgat gagtcaacag ggacaattgg caagcgtttg gccagcatca 180
gtgtagagaa cattgaatcc aacaggcgag ctcttaggga gctgcttttc actgctcctg 240
gtgttcttca atatct 256

<210> 1864
<211> 247
<212> DNA
<213> Glycine max

<400> 1864

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cccctcaggt gggtgctgag aactgttag agcccttcag agaaccgtgc ctgctgcagt 180
tctgctata gttttcttgt ctggtgggca gagtgaggag gaggcacccg ttaacctcaa 240

tgccatt

247

<210> 1865
<211> 256
<212> DNA
<213> Glycine max

<400> 1865

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tggcactcct ggaaagggtg ttcttgctgc tgatgagtca acagggacaa ttggcaagcg 120
tttggccagc atcagtgtag agaacattga atccaacagg cgagctctta gggagctgct 180
tttcaactgct cctgggtgttc ttcaatatct catgggtgtca tcctctttga ggaaaccctc 240
taccagagca cagctg 256

<210> 1866
<211> 266
<212> DNA
<213> Glycine max

<400> 1866

gaagggcact tcaacagagc acccttaagg catggagtgg aaaagaggag aatgtgaaga 60
aggctcagga agcccttttg gtaagagcca aggccaactc agaggcaact ctgggaacct 120
acaagggtaa ctcaaagctt gctgatgggtg cctcagagag cctccatggt gaggactaca 180
agtactgata aatctaagtg cgggtaggaa tcgggtatttt atgggtacaa ccgaattttc 240
ttgttaatga gtattgtgct tcgact 266

<210> 1867
<211> 247
<212> DNA
<213> Glycine max

<400> 1867

ctctaacctt cctctttttc ttctctctca acaacttcac cttcttctc ctcgatcatg 60
tctcacttca agggcaagta ccatgatgag cttatcgcca atgctgcgta cattggcact 120
cctggaaagg gtattcttgc tgctgatgag tcaacaggga caattggcaa gcgtttggcc 180
agcatcagtg tagagaacat tgaatccaac aggcgagctc ttagggagct gcttttcact 240

gctcctg

247

<210> 1868
<211> 264
<212> DNA
<213> Glycine max

<220>
<221> unsure
<222> (1)..(264)
<223> unsure at all n locations

<400> 1868

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aagggatttc ttgctgctga tgagtcaaca gggacaattg gcaagcgttt ggccagcatc 180
agtgtagaga acattgaatc caacaggcga gctcttaggg agctgctttt cactgctcct 240
ggtgttcttc aatatctcag tggt 264

<210> 1869
<211> 269
<212> DNA
<213> Glycine max

<400> 1869

ctcaagtcca acctaccct ttttcttctc ccaccaactt caccgtcttc ttctctgata 60
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actcctggaa agggatttct tgctgctgat gagtcaacag ggacaattgg caagcgtttg 180
gccagcatca gtgtagagaa tggtgaatcc aacaggcgtg ctcttaggga gctgcttttc 240
accgctaccg gtgctcttaa atatctcag 269

<210> 1870
<211> 250
<212> DNA
<213> Glycine max

<400> 1870

cctcgagctc gattcggctc gagggccaag taccatgatg agcttacgcg ccaatgctgc 60

gaccattggc actcctggaa agggatttct tgctgctgat gagtcaacag ggacaattgg 120
 ctgcggtttg gccagcatca gtgtagagaa cattgaatcc aacaggcgag ctcttaggga 180
 gctgcttttc actgctcctg gtgttcttca atatctcagt ggtgtcatcc tctttgagga 240
 aaccctctac 250

<210> 1871
 <211> 259
 <212> DNA
 <213> Glycine max

<400> 1871

ctcaagtcca acctaccct ttttcttctc ccaccaactt caccgtcttc ttctcgatc 60
 atctcacttc aagggaagt accatgatga gcttattgcc aatgctgctt acattggcac 120
 tcctggaaag ggtattcttg ctgctgatga gtcaacaggg acaattggca agcgtttggc 180
 cagcatcagt gtagagaatg ttgaatcaa caggcgctgct ctagggagc tgcttttcac 240
 cgctcccggg gctcttaaa 259

<210> 1872
 <211> 249
 <212> DNA
 <213> Glycine max

<400> 1872

ccaacctacc ctttttctt ctcccaccaa cttcaccgtc atcttctctg atcatgtctc 60
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 gaaagggat tcttgctgct gatgagtcaa cagggacaat tggcaagcgt ttggccagca 180
 tcagtgtaga gaatgttgaa tccaacaggc gtgctcttag ggagctgctt atcaccgctc 240
 ccggtgctc 249

<210> 1873
 <211> 243
 <212> DNA
 <213> Glycine max

<400> 1873

ctcaagtcca acctaccct ttttcttctc ccaccaactt caccgtcttc ttctcgatc 60

atgtctcact tcaagggcaa gtaccatgat gagcttattg tcaatgctgc ttacattggc 120
actcctggaa aggggtattct tgctgctgat gagtcaacag ggacaattgg caagcgtatg 180
gctcgcatca gtgtagagaa tgttgaatcc aacaggcgtg ctcttaggga gctgcttttc 240
acc 243

<210> 1874
<211> 254
<212> DNA
<213> Glycine max

<220>
<221> unsure
<222> (1)..(254)
<223> unsure at all n locations

<400> 1874

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tggcactcct ggaaagggta ttcttgctgc tgatgagtca acagggnaaa ttggcaagcg 180
tttggccagc atcngtgtag anaatgttga atccnacagg cgtgctctta gggagctgct 240
tttcaccgct cccg 254

<210> 1875
<211> 252
<212> DNA
<213> Glycine max

<400> 1875

aacctacctc tttttcttct ctctcaacaa cttcacctac ttctctctcg atcatgtctc 60
acttcaaggg caagtaccat gatgagctta tcgccaatgc tgcgtacatt ggcactcctg 120
gaaagggcat tcttgctgct gaggagtcaa cagggacaat tggcaagcgt ttggccagca 180
tcagtgtcga gaacattgaa tccaacaggc gagctcttag ggagctgctt ttcactgctc 240
ctggtgttcc cc 252

<210> 1876
<211> 294
<212> DNA
<213> Glycine max

<400> 1876

caacctctca agtccaacct accccttttt cttctccac caacttcacc gtcttcttcc 60

togattcatg tctcacttca aggggcaagt accatgatga gcttattgcc aatgctgctt 120

acattggcac tcttggaag ggtattcttg ctgctgatga gtcaacaggg acaattggca 180

agcgtttggc cagcatcagt gtagagaatg ttgaatccaa caggcgtgct cttaggagc 240

tgcttttcac cgctcccggt gctcttaa atctcagtgg tgtcaacctc ttga 294

<210> 1877

<211> 244

<212> DNA

<213> Glycine max

<400> 1877

tcaagtatta acccttttct ctctgaatac tctctactca atacattggc actcctggaa 60

agggtattct tgctgctgat gagtcaacag ggacaattgg caagcgtttg gccagcatca 120

gtgtagagaa cattgaatcc aacaggcgag ctcttaggga gctgcttttc actgctcctg 180

gtgttcttca atatctcagt ggtgtcatcc tctttgagga aaccctctac cagagcacag 240

ctgc 244

<210> 1878

<211> 244

<212> DNA

<213> Glycine max

<400> 1878

ctcaagtcca acctaccct ttttcttctc ccaccaactt caccgtcttc ttctcgatc 60

atgtctcact tcaagggcaa gtaccatgat gagcttattg tcaatgctgc ttacattggc 120

actcctggaa aggggtattct tgctgctgat gagtcaacag ggacaattgg caagcgtttg 180

gccagcatca gtgtagagaa tggtgaatcc aacaggcgtg ctcttaggga gctgcttttc 240

accg 244

<210> 1879

<211> 259

<212> DNA

<213> Glycine max

<400> 1879

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ctcgatcatg tctcacttca agggcaagta ccatgatgag cttattgtca atgctgctta 120
cattggcact ctggaaaggg tattcttgct gctgatgagt caacagggac aattggcaag 180
cgtttggcca gcatcagtgt agagaatgtt gaatccaaca ggcgtgctct tagggagctg 240
cttttcaccg ctcccgggtg 259

<210> 1880

<211> 258

<212> DNA

<213> Glycine max

<400> 1880

gtccaacctc cccctttttc ttctcccacc aacttcaccg tcttcttctc cgatcatgtc 60
tcacttcaag ggcaagtacc atgatgagct tattgccaat gctgcttaca ttggcactcc 120
tggaaggggt attcttgctg ctgatgagtc aacagggaca attggcaagc gtttggccag 180
catcagtgtg gagaatgttg aatccaacag gcgtgctctt agggagctgc ttttcaccgc 240
tcccgggtgct cttaaata 258

<210> 1881

<211> 268

<212> DNA

<213> Glycine max

<400> 1881

tctcgagccg attcggctcg aggtgcctgc tgcagttcct gctgacgttt tcttgtctgg 60
tgccagagtg gaggaggagg acatccgtca acctcaacgc cattaaccag gtcaatggga 120
agaagccatg gtcaactctc ttctcctttg gaagggcact tcaacagagc acccttaagg 180
catggggcgg aaaagaagag aatgtgaaga aggctcagga agcccttttg gtaagagcca 240
aggctaactc agaggcaact ctgggaac 268

<210> 1882

<211> 251

<212> DNA

<213> Glycine max

<400> 1882

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caagtaccat gatgagctta tcgccaatgc tgcgtacatt ggcactcctg gaaagggat 120
tcttgctgct atgagtcaac agggacaatt ggcaagcgtt tggccagcat cagtgtagag 180
aacattgaat ccaacaggcg agctcttagg gagctgcttt tcactgctcc tgggtgttctt 240
caatatctca g 251

<210> 1883

<211> 239

<212> DNA

<213> Glycine max

<400> 1883

caggtgagtt cttagggagc tgctttttcac tgctcctggg gttcttcaat atctcagtg 60
tgtcatcctc tttgaggaaa cctctacca gagcacagct gcaggcaagc cctttgtgaa 120
tgtcttgaag gaagctgggtg tgcttcctgg catcaagggt gacaagggca cagtcgagct 180
tgctggaact aatggagaaa ccaccactca gggcttagat ggccttggtc agcggttg 239

<210> 1884

<211> 261

<212> DNA

<213> Glycine max

<220>

<221> unsure

<222> (1)..(261)

<223> unsure at all n locations

<400> 1884

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tnacttncaa gggcaagtac catgatgagc ttatcgccaa tgctgcgtac attggcactc 120
ctggaaaggg tattcttgtg ctgatgagtc aacagggaca attggcaagc gtttggccag 180
catcagtgtg gagaacattg aatccaacag gcgagctctt agggagctgc ttttcactgc 240
tcctgggtgtt cttcaatata t 261

<210> 1885

<211> 239
 <212> DNA
 <213> Glycine max

 <400> 1885

 ccaacctctc aagtccaacc taccctttt tttcttcca ccaacttcac cgtcctcttc 60
 ctogatcatg tctcacttca agggcaagta ccatgatgag cttattgcca atgctgctta 120
 cattggcact cctggaaagg gtattcttgc tgctgatgag tcaacaggga caattggcaa 180
 gcgtttggcc agcatcagt tagagaatgt tgaatccaac aggcgtgctc ttagggagc 239

<210> 1886
 <211> 256
 <212> DNA
 <213> Glycine max

 <220>
 <221> unsure
 <222> (1)..(256)
 <223> unsure at all n locations

 <400> 1886

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 ctgcttacat tggcactcct ggaaagggtg ttcttgctgc tgatgagtca acagggacaa 180
 ttggcaagcg tttggccagc atcagtgtag agaatgttga atccaacagg cgtgctctta 240
 gggagctgct tttcac 256

<210> 1887
 <211> 264
 <212> DNA
 <213> Glycine max

 <400> 1887

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 cttcaagggc aagtaccatg atgagcttat cgccaatgct gcgtacattg gcaactcctgg 120
 acagggtatt cttgctgctg atgagtcaac agggacaatt ggcaagcgtt tggccagcat 180
 cagtgtagag aacattgaat ccaacaggcg agctcttagg gagctgcttt tcaactgctcc 240
 tgggtgttctt caatatctca gtgg 264

<210> 1888
 <211> 255
 <212> DNA
 <213> Glycine max

<400> 1888

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 tcacttcaag ggcaagtacc atgatgagct tatcgccaat gctgcgtaca ttggcactcc 120
 tggaaagggt attttgctgc tgatgagtca acagggacaa ttggcaagcg tttggccagc 180
 atcagtgtag agaacattga atccaacagg cgagctctta gggagctgct tttcactgct 240
 cctggtgttc ttcaa 255

<210> 1889
 <211> 254
 <212> DNA
 <213> Glycine max

<220>
 <221> unsure
 <222> (1)..(254)
 <223> unsure at all n locations

<400> 1889

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 ctgcttacat tgcactcctg gaaagggtat tcttgctgct gatgagtcaa cagggacaat 180
 tggcaagcgt ttggccagca tcagtgtaga gaatgttgaa tccaacaggc gtgctcttag 240
 ggagctgctt ttca 254

<210> 1890
 <211> 255
 <212> DNA
 <213> Glycine max

<400> 1890

cctacctctt tttcttctct ctcaacaact tcaccttctt cctcctcgat catgtctcac 60
 ttcaagggca agtaccatga tgagcttata gccaatgctg cgtacattgg cactcctgga 120

aagggtattc ttgctgctga tgagtcaaca gggacaattg gcaagcgttt ggccagcatc 180
 agtgtagaga acattgaatc caacaggcga gctcttaggg agctgctttt cactgctcct 240
 ggtgttcttc aatat 255

<210> 1891
 <211> 238
 <212> DNA
 <213> Glycine max

<400> 1891

cctcgagccg aatcggctcg agcacttcaa gggcaagtac catgacgagc ttattgtcaa 60
 acctgcttac attggcactc ctggaaaggg tattcttgct gctgatgagt caacagggac 120
 aattggcaag cgtttgcca gcatcagtgt agagaatgtt gaatccaaca ggcgtgctct 180
 tagggagctg cttttcaccg ctcccgggtgc tcttaaatat ctcagtgggtg tcatcctc 238

<210> 1892
 <211> 271
 <212> DNA
 <213> Glycine max

<220>
 <221> unsure
 <222> (1)..(271)
 <223> unsure at all n locations

<400> 1892

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 gtccttcttg agggtaacct attgaagcca aacatgggtca ccctggatc ccaatctgct 180
 aaggtttccc ctcaggtggt tgccgagcaa atgtcagagc cttcagagaa cgggtgcctgc 240
 tgcagtccctg ngtcgttttc tggnnngggg g 271

<210> 1893
 <211> 283
 <212> DNA
 <213> Glycine max

<400> 1893

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tctcacttca agggcaagta ccatgatgag cttatcgcca atgctgcgta cattggcact 120
 cctggaaagg gtattcttgc tgctgatgag tcaacaggga caattggcaa gcgtttggcc 180
 agcatcagtg tagagaacat cgaatccaac aggcgagctc ttagggagct gcttttctact 240
 gctcctgggtg ttcttcaata tctcagtact gtcacacctt ttg 283

<210> 1894
 <211> 253
 <212> DNA
 <213> Glycine max
 <400> 1894

tttcttccaa cctctcaagt ccaacctacc cttttttctt ctcccaccaa cttcaccgct 60
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 ctgcttacat tggcactcct ggaaagggtg ttcttgctgc tgatgagtca acagggacaa 180
 ccggcaagcg tttggccagc atcagtgtag agaatggtga atccaacagg cgtgctctta 240
 gggagctgct ttt 253

<210> 1895
 <211> 242
 <212> DNA
 <213> Glycine max
 <400> 1895

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 ctgcttacat tggcactcct ggaaagggtg ttcttgctgc tgatgagtca acagggacaa 180
 ttggcaagcg tttggccagc atcagtgtag agaatggtga atccaacagg cgtgctctta 240
 gg 242

<210> 1896
 <211> 257
 <212> DNA
 <213> Glycine max

<220>
 <221> unsure
 <222> (1) .. (257)

<223> unsure at all n locations

<400> 1896

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ctcctggaaa ggggtattctt gctgctgatg agtcaacagg gacaattggc aagcgtttgg  180
ccagcatcag ttagagagaac attgaatcca acaggcgagc tcttagggag ctgcttttca  240
ctgctcctgg tggttctt                                     257
```

<210> 1897

<211> 248

<212> DNA

<213> Glycine max

<220>

<221> unsure

<222> (1)..(248)

<223> unsure at all n locations

<400> 1897

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cttacattgg cactcctgga aaggggtattc ttgctgctga tgagtcaaca gggacaattg  180
gcaagcgttt ggccagcatc agtgtagaga atgttgaatc caacaggcgt gctctaggga  240
gctgcttt                                     248
```

<210> 1898

<211> 243

<212> DNA

<213> Glycine max

<400> 1898

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accatgatga gcttatcgcc aatgctgcgt acattggcac tcctggaaag ggtattcttg  120
ctgctgatga gtcaacaggg acaattggca agcgtttggc cagcatcagt gtagagaaca  180
ttgaatccaa caggcgagct cttagggagc tgcttttcac tgctcctggg gttcttcaat  240
atc                                             243
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<210> 1899
 <211> 268
 <212> DNA
 <213> Glycine max

<400> 1899

gccattaacc aggtcaatgg aaagaagcca tggtcactct ctttctcctt tggaaggcca 60
 cttcaacaga gcacccttaa ggcattggagt ggaaaagagg agaattgtgaa gaaggctcag 120
 gaagcccttt tggtaagagc caaggccaac tcagaggcaa ctctgggaac ctacaagggt 180
 aacttcaaag cttgctgatg gtgcctcaga gagcctccag ttgaggacta caattactga 240
 ttcaatctaa gtgcgggtag gaatcggg 268

<210> 1900
 <211> 253
 <212> DNA
 <213> Glycine max

<400> 1900

tgctgatgag tcaacagga caattggcaa gcgtttggcc agcatcagtg tagagaatgt 60
 tgaatccaac aggctgtctc ttagggagct gcttttcacc gctcccggtg ctctgtaaata 120
 tctcagtggt gtcattctct ttaaggaaac tctctaccag agcacagctg caggcaagcc 180
 ctttgtggaa gtcttgaatg aggctgggtg tcttctcggc atcaagggtt acagggcaca 240
 gtttcgcttg ctg 253

<210> 1901
 <211> 228
 <212> DNA
 <213> Glycine max

<400> 1901

cggctcgagg gtcacccccg gatccaattc tgctaagggt tcccctcagg tggttgcgga 60
 gacactgtta gagcccttca gagaaccgtg cctgctgcag ttctgctat cgttttcttg 120
 tctgggtggc agagtgagga ggaggcatcc gttaacctca atgccattaa ccagggtcaat 180
 ggaaagaagc catggtcact ctctttctcc tttggaaggg cacttcaa 228

<210> 1902
 <211> 252
 <212> DNA
 <213> Glycine max

<400> 1902

caacttcacc gtcttcttcc tcgatcatgt ctcaacttcaa gggcaagtac catgatgagc 60
 ttattgccaa tgctgcttac attggcactc ctggaaaggg tattcttgct gctgatgagt 120
 caacagggac aattggcaag cgtttggcca gcatcagtgt agagaatggt gaatccaaca 180
 ggcgtgctct tagggagctg cttttcaccg ctcccgggtgc tcttaaatat ctcaagtggg 240
 tcatcctctt tg 252

<210> 1903
 <211> 245
 <212> DNA
 <213> Glycine max

<400> 1903

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 tacttcctcg atcatgtctc acttcaaggg caagtaccat gatgagctta ttgccaatgc 120
 tgcttacttg gcactcctgg aaaggggtatt cttgctgctg atgagtcaac agggacaatt 180
 ggcaagcggt tggccagcat cagtgtagag aatggtgaat ccaacaggcg tgctcttagg 240
 gagct 245

<210> 1904
 <211> 255
 <212> DNA
 <213> Glycine max

<400> 1904

atcatgtctc acttcaaggg caagtaccat gatgagctta tcgccaatgc tgcgtacatt 60
 ggcactcctg gaaaggggtat tcttgctgct gatgagtcaa cagggacaat tggcaagcgt 120
 atgccagcat cagtgtagag aacattgaat ccaacaggcg agctcttagg gagctgcttt 180
 tcactgctcc ggggtgttctt caatatctca gtggtgtcat cctctttgag gaaaccctct 240
 accagagcac agctg 255

<210> 1905
 <211> 233
 <212> DNA
 <213> Glycine max

 <400> 1905

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 tcgatcatgt ctcaattcaa gggcaagtac catgatgagc ttattgccaa tgctgcttac 120
 attggcactc ctggaaaggg tattcttgct gctgatgagt caacagggac aattggcaag 180
 cgttttagcca gcatcagtgt agagaatgtt gaatccaaca ggcgtgctct tag 233

<210> 1906
 <211> 237
 <212> DNA
 <213> Glycine max

 <400> 1906

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 gcaagtacca tgatgagctt atcgccaatg ctgcgtacat tggcactcct ggaaagggta 120
 ttcttgaagc tgatgagtca acagggacaa ttggcaagcg tttggccagc atcagtgtag 180
 agaacattga atccaacagg cgagctctta gggagctgct tttcactgct cctgggtg 237

<210> 1907
 <211> 237
 <212> DNA
 <213> Glycine max

 <400> 1907

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 ctacttcctc ctgatcatg tcacacttca agggcaagta ccatgatgag cttatcgcca 120
 atgctgcgta cattggcact cctggaaagg gtattcttgc tgctgatgag tcaacaggga 180
 caattggcaa gcgtttggcc agcatcagtg tagagaacat tgaatccaac aggcgag 237

<210> 1908
 <211> 243
 <212> DNA
 <213> Glycine max

 <400> 1908

ctccttttga agggcacttc aacagagcac ccttaaggca tggggcggaa aataagagaa 60
 tgtgaagaag gctcaggaag cccttttggg aagagccaag gctaactcag aggcaactct 120
 gggaccctac aagggttaact cacagcttgc tgatggtgcc tcagagagcc tccatgtttc 180
 gaactacagc tactgatcaa tcgaagttgg tgttgtttga agagactagt gcgagtagga 240
 atc 243

<210> 1909
 <211> 249
 <212> DNA
 <213> Glycine max

<220>
 <221> unsure
 <222> (1)...(249)
 <223> unsure at all n locations

<400> 1909

ctttcttcca acctctcaag tccaacctac ccctttttct tctcncacca ncttcaccgt 60
 cntcttctct gancatgtct cacttcaagg gcaagtacca tgtgagctta ttgccaatgc 120
 nncttacatt ggcactcctg gaaagggat tcttgctgct gatgagtcaa cagggacaat 180
 tggcaagcgt ttggccagca tcagtgtaga gaatgaatcc aacaggcgtg ctcttaggga 240
 gctgctttt 249

<210> 1910
 <211> 242
 <212> DNA
 <213> Glycine max

<400> 1910

cctctaacct acctctttag cttctctctc aacaacttca cttcttctct cctcgatcat 60
 gtctcacttc aagggaagt accatgatga gcttatcgcc aatgctgcgt acattggcac 120
 tcttggaag ggtattcttg ctgctgatga gtcaacaggg acaattggca agcgtttggc 180
 cagcatcagt gtagagaaca ttcaatccaa caggcgagct tagggagctg cttttcactg 240
 ct 242

<210> 1911

<211> 248
 <212> DNA
 <213> Glycine max

<220>
 <221> unsure
 <222> (1)..(248)
 <223> unsure at all n locations

<400> 1911

cnttgggaagg gcacttcaac agagcaccct taaggcatgg gacngaaaag aagagaatgt 60
 gaagnaggct caggaagccc tnntggtaag agccaaggct aactcanagg caactctggg 120
 aacctacaag ggtaactcac agcttgctga tggcgcctca gagagcctcc atgtttcgaa 180
 ctaagctact gatcaatcga agttggtggt gtttgaagag nctagtgcga gtaggaatcg 240
 gtattatg 248

<210> 1912
 <211> 243
 <212> DNA
 <213> Glycine max

<400> 1912

ctcctttgga agggcacttc aacagagcac ccttaaggca tgaggcggaa aagaagagaa 60
 tgtgaagaag gctcaggaag cccttttggt aagagccaag gctaactcag aggcaactct 120
 gggaacctac aagggttaact cacagcttgc tgatggtgcc tcagagagcc tccatgtttc 180
 gaactacagc tattgtcaat cgagttgggg gtggtttaag agacctagtt cgagtaggaa 240
 tcg 243

<210> 1913
 <211> 261
 <212> DNA
 <213> Glycine max

<400> 1913

gaagaaggct caggaagccc ttttggtaag agccaaggcc aactcagagg caactctggg 60
 aacctacaag ggtaactcaa agcttgctga tggcgcctca gagagcctcc atgttgagga 120
 ctacaagtac tgatcaatct aagtgcgggt aggaatcggt attttatggg tacaaccgaa 180
 ttttcttggt aatgagtatt gtgcttcgac tcttcccaga ataataatcg tttggaattt 240

tgctttttgt ttttctagt g 261

<210> 1914
 <211> 253
 <212> DNA
 <213> Glycine max

<400> 1914

eggctcgagc ggctcgagcg gctcgagaac ctacctcttt ttcttctctc tcaacaactt 60
 caccttcttc cacctcgata atgtctcact tcaagggcaa gtaccatgat gagcttatcg 120
 ccaatgctgc gtacattggc actcctggaa aggggtattct tgctgctgat gagtcaacag 180
 ggacaattgg caagcgtttg gccagcatca gtgtagagaa cattgaatcc aacaggcgag 240
 ctcttaggga gct 253

<210> 1915
 <211> 260
 <212> DNA
 <213> Glycine max

<400> 1915

aacagagcac ccttaaggca tggggcggaa aagaagagaa tgtgaagaag gctcaggaag 60
 cccttttggg aagagccaag gctaactcag aggcaactct gggaacctac aagggttaact 120
 cacagcttgc tgatggtgcc tcagagagcc tccatgtttc gaactacagc tactgatcaa 180
 tcgaagttgg tggtgtttga agagactagt gcgagtagga atcggtatta tgggtacaac 240
 aaccgaattt cttgttgata 260

<210> 1916
 <211> 257
 <212> DNA
 <213> Glycine max

<220>
 <221> unsure
 <222> (1)..(257)
 <223> unsure at all n locations

<400> 1916

aagcaacctc taacctacct ctttttcttc tctctcaaca acttcacctt cttcactctc 60

gatcatgaca cacntcaaag gcaagtagca tgatgagctt atcgccaatg ctgcgtacat 120
 tggcactcct ggaaagggca ttcttgctgc tgatgagtca acagggacaa ttggcaagcg 180
 tttggccagc atcagtgtag agaacattga atccacaggc gagctcttag ggagctgctt 240
 ttcactgctc ctggtgt 257

<210> 1917
 <211> 263
 <212> DNA
 <213> Glycine max

<220>
 <221> unsure
 <222> (1)..(263)
 <223> unsure at all n locations

<400> 1917

ggagaatgtg aagaaggctc aggaagccct tttggtaaga gccaaaggcca actcagaggc 60
 aactctggga acctacaagg gtaactcaaa gcttgctgat ggtgcctcag agagcctcca 120
 tgttgaggac tacaagtact gatcaatcta agtgcgggta ggaatcggtta ttttatgggt 180
 acaaccgaat tttcttggtta atgagtattg tgcttcgact cttcccagaa taataatcgt 240
 ttggaatttn cctttggntt ccc 263

<210> 1918
 <211> 260
 <212> DNA
 <213> Glycine max

<220>
 <221> unsure
 <222> (1)..(260)
 <223> unsure at all n locations

<400> 1918

ctctaaccta cctctttttc ttctctctca acnaacttcan cttcttcctc ctgcgatcat 60
 gtctcacttc aagggaagt acnatgaacg agcttatcgc caatgctgcg tacattggca 120
 ctcttgaaa gggattctt gctgctgatg agtcaanagg gacaattggc aagcgtttgg 180
 ccagcatnng tgtanngaan attgaatcca acaggcgagc tcttagggag ctgcttttca 240
 ctgctcctgg tgttcttcaa 260

<210> 1919
 <211> 221
 <212> DNA
 <213> Glycine max

<400> 1919

gatggctctc atgacattca caagtgtgct gccgtcaccg agcgtgtcct tgcagcatgc 60
 tacaaggctt tgaatgatca ccacgtcctt cttgagggta ccctattgaa gccaaacatg 120
 gtcacccccg gatccaattc tgctaagggt tccccctcagg tgggtgcgga gacactgtta 180
 gagcccttca gagaaccgtg cctgctgcag ttcttgcctat c 221

<210> 1920
 <211> 262
 <212> DNA
 <213> Glycine max

<400> 1920

ccaactcaga ggcaactctg ggaacctaca agggtaactc aaagcttgct gatgggtgcct 60
 cagagagcct ccatgttgag gactacaagt actgatcaat ctaagtgcgg gtaggaatcg 120
 gtattttatg ggtacaaccg aatttttcttg ttaatgagta ttgtgcttcg actcttccca 180
 gaataataat cgtttggaat tttgcttttt gttttcctag tgttccttca tatcaatttt 240
 agtaattcgg tgtattgggc aa 262

<210> 1921
 <211> 145
 <212> DNA
 <213> Glycine max

<400> 1921

cgtttggcca gcatcagtgt agagaatgtt gaatccaaca gccgtgctct tagggagctg 60
 cttttcaccg ctcccggtgc tottaaataat ctcaagtggg tcatcctctt tgaggaaact 120
 ctctaccaga gcacagctgc aggca 145

<210> 1922
 <211> 239
 <212> DNA
 <213> Glycine max

<400> 1922

gctcaggaag cccttttggg aagagccaag gccaaactcag aggcaactct gggaagctac 60

aagggtaact caaagcttgc tgatggtgcc tcagagagct ccatgttgag gactacaagt 120

actgatcaat ctaagtgcgg gtaggaatcg gtattttatg ggtacaaccg aattttcttg 180

ttaatgagta ttgtgcttcg actcttccca gaataataat cgtttggaat tttgctttt 239

<210> 1923

<211> 238

<212> DNA

<213> Glycine max

<400> 1923

tccaacctct caagtccaac ctaccctttt ttctgctccc accaacttca ccgtcttctt 60

cctcgatcat gtctcacttc aagggaagt accatgatga gcttattgcc aatgctgctt 120

acattggcac tcctggaaag ggtattcttg ctgctgatga gtcaacaggg acaattggca 180

agcgtttggc cagcatcagt gtagagaatg ttgaatccaa caggcgtgct cttaggga 238

<210> 1924

<211> 210

<212> DNA

<213> Glycine max

<220>

<221> unsure

<222> (1)..(210)

<223> unsure at all n locations

<400> 1924

ctttcttcca acctctcaag tccaacctac cccttnttct tctcccacca acttcaccgt 60

nnttcttctt cgatcatgtc tcaacttcaag ggcaagtacc atgatgagct tattgccaat 120

gctgcttaca ttggcactcc tggaaaggga ttcttgcgtgc tgatgagtca acngggacat 180

ttggnagcgt ttgccaagcn ganatntaac 210

<210> 1925

<211> 263

<212> DNA

<213> Glycine max

<400> 1925

aacctctcaa gtccaaccta cccctttttc ttctcccacc aacttcaccg tcttcttct 60
 cgatcatgtc tcacttcaag ggcaagtacc atgatgagct tattgccaat gctgcttaca 120
 ttggcactcc tggaaagggg tatcttgctg ctgatgagtc aaccaggacc attggcaagc 180
 gttttgccaa catccgtgta gaagatgttg aattccacaa ggcggctcct aaggaactgg 240
 ttttcaacgg ttcccgtgct cct 263

<210> 1926
 <211> 271
 <212> DNA
 <213> Glycine max

<400> 1926

gagaatgtga agaaggctca ggaagccctt ttggtaagag ccaaggctaa ctgagaggca 60
 actctgggaa cctacaaggg taactcacag cttgctgatg gtgcctcaga gagcctccat 120
 gtttcgaact acagctactg atcaatcgaa gttggtgttg tttgaagaga ctagtgcgag 180
 taggaatcgg tattatgggt acaacaaccg aatttcttgt tgataagtat tattgtgggt 240
 tgactcttcc cagaataatc gtttgaatt t 271

<210> 1927
 <211> 241
 <212> DNA
 <213> Glycine max

<400> 1927

acctacctct ttttcttctc tctcaacgac ttcttcttct tcttctctta tcatgtctta 60
 cttcaagggc aagtaccatg atgagcttat tgccaatgct gcgtacattg gcagtctctgg 120
 aaaggggtatt cttgctgctg atgagtcagc agggacagtt ggcaatcggt tggccacaat 180
 cagtgtagac gacattgtat ccaacaggcg agctcttatg gagctgcttt tcaactgctcc 240
 t 241

<210> 1928
 <211> 274
 <212> DNA
 <213> Glycine max

<220>

<221> unsure
 <222> (1)..(274)
 <223> unsure at all n locations

<400> 1928

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ancnacctnt ntttcttctc tctcaacaac ttcancecgn ttcctctctcn atcangtctc   60
acntnaaggg gcaagtacna tgntgagctt atcgccaatg ctgcgtacat tggcactcct  120
ggaaagggta ttcttgctgc tgatgngtca acagggacaa ttggcaagcg tttggccagn  180
catcagtgtg gagaacattg aatccaacag gngnnctctt agggagcngg ctttnactgc  240
tcttggnnat ctcantnnnn nnntngtgc gtcc                                274
```

<210> 1929
 <211> 228
 <212> DNA
 <213> Glycine max

<400> 1929

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ctcaagtcca gcctaccctt ttttcttctc ccaccaactt caccgtcttc ttcctcgatc   60
atgtctcact tcaagggcaa gtaccatgat gagcttattg tcaatgctgc ttacattggc  120
actcctggaa agggatttca tgctgctgat gagtcaacag ggacaattgg caagcgtttg  180
tccagcatca gtgtaggcga tgttgaatcc aacaggcgtg ctcttagg                    228
```

<210> 1930
 <211> 112
 <212> DNA
 <213> Glycine max

<400> 1930

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gtcccaacga gccatctgag ctggctatcc atgagaatgc ctatggcttg gccagatacg   60
ctgtcatatg ccaggagaat ggcttggttc ccattgttga gcctgagatc ct              112
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<210> 1931
 <211> 190
 <212> DNA
 <213> Glycine max

<400> 1931

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gcccttttgg taagagccaa ggctaactca gaggcaactc tggaaccta caagggtaac   60
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tcacagcttg ctgatggtgc ctgagagagc ctccatgttt cgaactacag ctactgatca 120
 atcgaagttg gtgttggttg aagagactag tgcgagtagg aatcggtatt atgggtacaa 180
 caaccgaatt 190

<210> 1932
 <211> 92
 <212> DNA
 <213> Glycine max

<400> 1932

ggccaactca gaggcaactc tggggaacct acaagggtaa ctcaaagctt gctgatggtg 60
 cctcagagag cctccatgtt gaggactaca ag 92

<210> 1933
 <211> 232
 <212> DNA
 <213> Glycine max

<400> 1933

ggctaactca gaggcaactc tgggaacct caagggtaac tcacagcttg ctgatggtgc 60
 ctgagagagc ctccatgttt cgaactacag ctactgatca atcgaagttg gtgttggttg 120
 aagagactag tgcgagtagg aatcggtatt atgggtacaa caaccgaatt tcttggtgat 180
 aagtattatt gtggtttgac tcttccaga ataatcggtt ggaattttgc tt 232

<210> 1934
 <211> 148
 <212> DNA
 <213> Glycine max

<400> 1934

ctctaacctc cctctttttc ttctctctca acaacttcac cttcttcctc ctgatcatg 60
 tctcacttca agggcaagta ccatgatgag cttatcgcca atgctgcgta cattggcact 120
 cctggaaagg ctgtctggcc acagactt 148

<210> 1935
 <211> 92
 <212> DNA
 <213> Glycine max

<400> 1935

eggctcgaga gaatgttgaa tccatcaggc ggcgtcttag ggagatgctt ttaaccgcta 60

ccggtgatct taaatatctc agtgggtgtca tc 92

<210> 1936

<211> 144

<212> DNA

<213> Glycine max

<400> 1936

ctacctcttt ttcttctctc tcaacaactt caccttcttc ctctctgac atgtctcact 60

tcaagggcaa gtacatgat gagcttatcg ccaatgctgc gtacattggc actcctggaa 120

agggtattct tgctgctgat gagt 144

<210> 1937

<211> 152

<212> DNA

<213> Glycine max

<220>

<221> unsure

<222> (1)..(152)

<223> unsure at all n locations

<400> 1937

accacgtcct tcttgagggt accctattga agccaaacat ggtcaccccc ggateccaatt 60

ctgctaaggg ttcccctcag gtggttgagg agacactgnt agagccttca gagaaccgtg 120

ctgctgcagt tctgtatcgt ttcttgtctg gt. 152

<210> 1938

<211> 284

<212> DNA

<213> Glycine max

<400> 1938

gcgaactggt cccgctgctg ttccggccat tgtcttcttg tctggtgggc agagcgagga 60

ggaggcaacc ctcaacctca acgcatgaa caagtcccag ggaaagaagc cgtggtccct 120

ttctttctct tttggaagg cacttcagca aagcactctc aaggcatggg gtgggaaaga 180

tgaaaacatt aagaaggctc aggatgcttt atttgccagg tgcaatgcaa actcacatgc 240

aacttttgga acttacaaag gtgatgctac ccttgctgag ggtg 284

<210> 1939
 <211> 283
 <212> DNA
 <213> Glycine max

<220>
 <221> unsure
 <222> (1)..(283)
 <223> unsure at all n locations

<400> 1939

anagattcaa caatgggcct ctggcttctg ctactcttct ncaagtcac tcctgttctt 60
 gacaagtgcg agtgggtctc aggccagacc cttcgccaac ctctcgtgag atgtaaccct 120
 tcctcagcat cagctctcac catcaaagct gtttcctatg ctgacgagct cgtcaaaacc 180
 gccaaaacag tggctcaccg gggcgtggta ttttggcgat ggatgagtca aatgcaactg 240
 cgggaagcgt ttggcatcta ttgggttaga gaacacagaa gta 283

<210> 1940
 <211> 257
 <212> DNA
 <213> Glycine max

<400> 1940

ggttgcttgg cggggataag attaaagatt caacaatggc ctctgcttct gctactcttc 60
 tcaagtcac tcctgttctt gacaagtgcg agtgggtcaa aggccagacc cttcgccaac 120
 ctctcgtgag tgtaaccctt cctcagcatc agctctcacc atcaaagctg cttcctatgc 180
 tgacgagctc gtcaaaaccg ccaaaacagt ggctcaccg gggcgtggta ttttggcgat 240
 ggatgagtca aatgcaa 257

<210> 1941
 <211> 240
 <212> DNA
 <213> Glycine max

<220>
 <221> unsure
 <222> (1)..(240)
 <223> unsure at all n locations

<400> 1941

gcggggataa gattagagat tcactgtatn gnctctgctt ctgctactcg tctcaagtca 60
tctcctgttc ttgacaagtg cgggtgggtc agaggccaga cccttcgcca acctctcgtg 120
agatgtaacc cttcctcagc atcagctctc accatcaaag ctgcttccta tgctgacgac 180
gtcgtcaaaa ccgccaaaac agtggcctca ccggggcgtg gtattttggc gatggatgag 240

<210> 1942

<211> 280

<212> DNA

<213> Glycine max

<220>

<221> unsure

<222> (1)..(280)

<223> unsure at all n locations

<400> 1942

ggggataaga ttaaagattc aacaatggcc tctgcttctg ctactcttct caagtcattct 60
cctgttcttg acaagtgcga gtnggtcaaa ggccagacct ttcgccaacc tctcgtgaga 120
tgtaaccctt cctcagcatc agctctcacc atcaaagctg cttcctatgc tgacgagctc 180
gtcaaaaccg gccaaaacag tgggcttcac cgggggncgt gggaatttgg gngatggatg 240
nngtcaangg caaccttggg ggaaggnnnt tggcntnnnt 280

<210> 1943

<211> 240

<212> DNA

<213> Glycine max

<400> 1943

cggggataag attaaagatt caacaatggc ctctgcttct gctactcttc tcaagtcattc 60
tcctgttctt gacaagtgcg agtgggtcaa aggccagacc cttcgccaac ctctcgtgag 120
atgtaaccct ccctcagcat cagctctcac catcaaagct gcttcctatg ctgacgagct 180
cgtcaaaacc gccaaaacag tggcctcacc ggggcgtggg attttggcga tggatgagtc 240

<210> 1944

<211> 174

<212> DNA

<213> Glycine max
 <400> 1944
 ataagattaa agattcaaca atggcctctg cttctgctac tcttctcaag tcatctcctg 60
 ttcttgacaa gtgcgagtgg gtcaaaggcc agacccttcg ccaacctctc gtgagatgta 120
 acccttcctc agcatcagct ctcaccatca aagctgcttc ctatgctgac gagg 174

<210> 1945
 <211> 234
 <212> DNA
 <213> Glycine max
 <400> 1945
 aagattaaag attcaacaat ggcctctgct tctgctactc ttctcaagtc atctcctgtt 60
 gttgacaagt gcgagtgggt caaaggccag acccttcgcc aacctctcgt gagatgtaac 120
 ccttcctcag catcagctct caccatcaaa gctgcttcct atgctgacga gctcgtcaaa 180
 accgccaaaa cagtggcctc accggggcgt ggtatttttg cgatggatga gtca 234

<210> 1946
 <211> 186
 <212> DNA
 <213> Glycine max
 <220>
 <221> unsure
 <222> (1)..(186)
 <223> unsure at all n locations
 <400> 1946
 cgggggataag attaaagatt caacaatggc ctctgcttct gctactcttc tcaagtcac 60
 tctgtttctt gacaagtgcg agtgggtcaa aggccagacc cttcgccaac ctctcgtgag 120
 atgtaaccct tcttcagcat cagctctcac catcanagct gcttctatg ctgacgagan 180
 cgnaaa 186

<210> 1947
 <211> 175
 <212> DNA
 <213> Glycine max
 <400> 1947

cggggataag attaaagatt caacaatggc ctctgcttct gctactcttc tcaagtcac 60
 tcctgttctt gacaagtgcg agtgggtcaa aggccagacc ctctgccaac ctctcgtgag 120
 atgtaaccct tcctcagcat cagctctcac catcaaagct gcttcctatg ctgac 175

<210> 1948
 <211> 168
 <212> DNA
 <213> Glycine max

<400> 1948

cggggataag attaaagatt caacaatggc ctctgcttct gctactcttc tcaagtcac 60
 tcctgttctt gacaagtgcg agtgggtcaa aggccagacc ctctgccaac ctctcgtgag 120
 atgtaaccct tcctcagcat cagctctcac catcaaagct gcttccta 168

<210> 1949
 <211> 120
 <212> DNA
 <213> Glycine max

<400> 1949

atcggtttcc cgccatatat ccaataagct ttaaccatgt ctgcctttgt tggaaagtac 60
 gcagatgagc ttatcaagaa tgccaagtac atagccacac ctgggaaggg catcttggca 120

<210> 1950
 <211> 256
 <212> DNA
 <213> Glycine max

<400> 1950

caaagctcaa caccttgtct tcccagtggc tcgcccacaa ttctttctct cctcgccgtg 60
 gatcctcttc tcgccgagtc tctcttccga tccgcgttc ttcttaccaa cacgaactct 120
 tccaaaccgc caaatctatt gcatctcccg gtcgtggaat tcttgcaatt gatgaatcaa 180
 atgccacatg tgggaagcgt ttagcatcca ttggattgga caatactgag gtgaatcgcc 240
 aggcctatag gcaact 256

<210> 1951
 <211> 280

<212> DNA
 <213> Glycine max

 <220>
 <221> unsure
 <222> (1)..(280)
 <223> unsure at all n locations

 <400> 1951

 accactttct gtttctcttc actctaattg ccatggcagc gtctncaaag ctcaacacct 60
 tgtcttcttc ccagtggatc gccacaatt ccttctctcc tcgccgtgga tctcttctc 120
 gccgagtctc tcttccgatc cgcgcttctt cttaccaaca cgaactcgtc caaaccgcca 180
 aatccattgc atcaccgggc cgtggaattc ttgcaattga tgaatcaa at gccacatgtg 240
 ggaaacgatt agcatccatt ggattggaca ataccgaggt 280

<210> 1952
 <211> 268
 <212> DNA
 <213> Glycine max

 <400> 1952

 ctttctcttt ctcttcactc taaagtctaa gcatccatgg ccatggcgtc tgcaaagctc 60
 aacaccttgt cttcccagtg gatcgccac aattccttct ctctcgccg tggatcctct 120
 tctcgccgag tctctcttcc gatccgcgt tcttcttacc aacacgaact cgtccaaacc 180
 gccaaatcta ttgcatctcc cggtcgtgga attcttgcaa ttgatgaatc aaatgccaca 240
 tgtgggaagc gtttagcatc cattggat 268

<210> 1953
 <211> 262
 <212> DNA
 <213> Glycine max

 <400> 1953

 actttctgtt tctcttcact ctaatggcca tggcagcgtc tgcaaagctg cacaccttgt 60
 cttcttccca gtggatcgcc cacaattcct tctctcctcg ccgtggatcc tcttctcgcc 120
 gagtctctct tccgatccgc gcttcttctt accaacaaga actcgtccaa accgccaat 180
 ccattgcac acccgccgt ggaattcttg caattgatga atcaaagcc acatgtggga 240

aacgattagc atccattgga tt 262

<210> 1954
 <211> 262
 <212> DNA
 <213> Glycine max

<400> 1954

ctctaagcat ccatggccat ggcgtctgca aagctcaaca cttgtcttc ccagtggatc 60
 gccacaatt ctttctctcc tcgccgtgga ttttcttctc gctgagttct gtcttccgat 120
 ccgcgtttct tcttaccac acgaactcgt ccaaaccgcc agatctattg catctcccg 180
 tcgtggaatt cttgcaattg atgaatcaaa tgccacatgt gggaagcgtt tagcatccat 240
 tggattggac aatactgagg tg 262

<210> 1955
 <211> 187
 <212> DNA
 <213> Glycine max

<400> 1955

gcaaagctca acaccttgtc ttcttcccag tggatcgccc acaattcctt ctctcctcgc 60
 cgtcgatcct cttctcgccg agtctctctt ccgatccgcg cttcttctta ccaacacgaa 120
 ctcttccaaa ccgccaaatc cattgcatca cccggccgtg gaattcttgc aattgatgaa 180
 tccaaat 187

<210> 1956
 <211> 246
 <212> DNA
 <213> Glycine max

<400> 1956

tacagcccca ctttctcttt ctctttctct tcaactctaaa gtctaagcat ccatggccat 60
 ggcgtctgca aagctcaaca cttgtcttc ccagtggatc gccacaatt ctttctctcc 120
 tcgccgtgga tcctcttctc gcgcagtctc tcttccgatc cgcgtttctt cttaccaaca 180
 cgaactcgtc caaaccgcc aatctattgc atctcccggt cgtggaattc ttgcaatgga 240
 tgaatc 246

<210> 1957
 <211> 289
 <212> DNA
 <213> Glycine max

<400> 1957

ctccccaatt ctcaagccaa ccatgtcttc cttcaagagc aagtaccaag atgaactcat 60
 tgccaatgct gcttacattg gcaccccagg gaagggtatc cttgctgctg atgagtcaac 120
 tgggtacaatt ggcaagcgat tggccagcat taatgtcgag aatggtgaag caaataggcg 180
 tgctcttcgt gaactcctat tcaccacacc tgggtgctttt gagtgcctca gtggtgtgat 240
 cttgtttgag gaaaccctat accaaaagac agcttcagga aaacccttc 289

<210> 1958
 <211> 284
 <212> DNA
 <213> Glycine max

<400> 1958

cctcaagcca accatgtctt ccttcaagag caagtaccaa gatgaactca ttgccaatgc 60
 tgcttacatt ggcaccccag ggaagggtat ccttgctgct gatgagtcaa ctggtacaat 120
 tggcaagoga ttggccagca ttaatgtcgg aatggtgaag caaataggcg tgctcttcgt 180
 gaactcctat tcaccacacc tgggtgctttt gagtgcctca gtggtgtgat cttgtttgag 240
 gaaaccctat accaaaagac agcttcagga aaacccttcg taga 284

<210> 1959
 <211> 290
 <212> DNA
 <213> Glycine max

<400> 1959

cttcgtcaaa accaaccaaa cccctcccca attctcaagc caaccatgtc ttccttcaag 60
 agcaagtacc aagatgaact cattgccaat gctgcttaca ttggcacccc aggggaagggt 120
 atccttgctg ctgatgagtc aactggtaca attggcaagc gattggccag cattaatgtc 180
 gagaatgttg aagcaaatag gcgtgctctt cgtgaactcc tattcaccac acctggtgct 240
 tttgagtgcc tcagtgggtg gatcttggtt gaggaacccc tataacaaaa 290

<210> 1960
 <211> 264
 <212> DNA
 <213> Glycine max

<220>
 <221> unsure
 <222> (1)..(264)
 <223> unsure at all n locations

<400> 1960

cctccccaat tctcaagcca accatgtctt ccttcaagag caagtaccaa gatgaactca 60
 ttgccaatgc tgcttacatt ggcaccccag ggaagggat ccttgctgct gatgagtcaa 120
 ctggtacaat tggcaagcga ttggccagca ttaatgtcga gaatgttgaa gcaaataaggc 180
 gtgctcttcg tgaactcctn ttcaccacac ctggtgcttt tgagtgcctc agtggtgtga 240
 tcttgtttga ggaaacccta tacc 264

<210> 1961
 <211> 264
 <212> DNA
 <213> Glycine max

<400> 1961

caattctcaa gccaaccatg tcttccttca agagcaagta ccaagatgaa ctcattgcc 60
 atgctgctta cattggcacc ccagggaagg gtatccttgc tgctgatgag tcaactggta 120
 caattggcaa gcgattggcc agcattaatg tcgagaatgt tgaagcaaat aggcgtgctc 180
 ttcgtgaact cctattcacc acacctggtg cttttgagtg cctcagtggt gtgatcttgt 240
 ttgaggaaac cctataccaa aaga 264

<210> 1962
 <211> 274
 <212> DNA
 <213> Glycine max

<400> 1962

gtcttctcac ttcgtcaaaa ccaaccaaac ccctcccaa ttctcaagcc aaccatgtct 60
 tccttcaaga gcaagtacca agatgaactc attgccaatg ctgcttacat tggcacccca 120
 gggaagggtg tccttgctgc tgatgagtca actggtacaa ttggcaagcg attggccagc 180

attaatgtcg agaatgttga agcaaataagg cgtgctcttc gtgaactcct attcaccaca 240
 cctgggtgctt tagagtgcct cagtgggtgtg atct 274

<210> 1963
 <211> 240
 <212> DNA
 <213> Glycine max

<400> 1963

cctccccaat tctcaagcca accatgtctt ccttcaagag caagtaccaa gatgaactca 60
 ttgccaatgc tgcttacatt ggcaccccag ggaagggat ccttgctgct gatgagtcaa 120
 ctgggtacaat tggcaagcga ttggccagca ttaatgtcga gaatgttgaa gcaaataaggc 180
 gtgctcttcg tgaactccta ttcaccacac ctgggtgcttt tgagtgcctc agtgggtgtga 240

<210> 1964
 <211> 280
 <212> DNA
 <213> Glycine max

<400> 1964

cgttgttctt ctcaattcgt caaaaccaac caaaccctc cccaattctc aagccaacca 60
 tgtcttcctt caagagcaag taccaagatg aactcattgc caatgctgct tacattggca 120
 cccaggggaa gggatcctt gctgctgatg agtcaactgg tacaattggc aagcgattgg 180
 ccagcattaa tgtcgagaat gttgaagcaa ataggcgtgc tcttcgtgaa ctctattca 240
 ccacacctgg tgcttttgag tgctcagtg gtgtgatctt 280

<210> 1965
 <211> 277
 <212> DNA
 <213> Glycine max

<400> 1965

cgatgtcttc tcaattcgtc aaaaccaacc aaaccctcc ccaattctca agccaaccat 60
 gtcttccttc aagagcaagt accaagatga actcattgcc aatgctgctt acattggcac 120
 cccaggggaa ggtatccttg ctgctgatga gtcaactggc acaattggca agcgattggc 180
 cagcattaat gtcgagaatg ttgaagcaaa taggcgtgct cttcgtgaac tcctattcac 240

cacacctggg gcttttgagt gcctcagtg tgtgatc

277

<210> 1966
<211> 266
<212> DNA
<213> Glycine max

<400> 1966

ccgttggtctt ctcacttcgt caaaaccaac caaaccctc cccaattctc aagccaacca 60
tgtcttcctt caagagcaag taccaagatg aactcattgc caatgctgct tacattggca 120
ccccagggaa gggatcctt gctgctgatg agtcaactgg tacaattggc aagcgattgg 180
ccagcattaa tgcgagaat gttgaagcaa ataggcgtgc tcttcgtgaa ctctattca 240
ccacacctgg tgcttttgag tgcctc 266

<210> 1967
<211> 260
<212> DNA
<213> Glycine max

<400> 1967

cttctcactt cgtcaaaacc aaccaaacc ctccccaatt ctcaagccaa ccatgtcttc 60
cttcaagagc aagtaccaag atgaactcat tgccaatgct gcttacattg gcaccccagg 120
gaagggatc cttgctgctg atgagtcaac tggtaacaatt ggcaagcgat tggccagcat 180
taatgtcgag aatgttgaag caaataggcg tgctcttcgt gaactcctat tcaccacacc 240
tggtgctttt gaggcctca 260

<210> 1968
<211> 247
<212> DNA
<213> Glycine max

<400> 1968

cgttggtcttc tcaattcgtc aaaaccaacc aaaccctcc ccaattctca agccaaccat 60
gtcttccttc aagagcaagt accaagatga actcattgcc aatgctgctt acattggcac 120
cccagggaa ggtatccttg ctgctgatga gtcaactggg acaattggca agcgattggc 180
cagcattaat gtcgagaatg ttgaagcaaa taggcgtgct cttcgtgaac tcctattcac 240

cacacct 247

<210> 1969
<211> 272
<212> DNA
<213> Glycine max

<400> 1969

cctcgagcga atcggtcga gcgttgctt ctacttcgt caacgaccaa ccaaaccct 60
ccccaattct caagccaacc atgtcgtcct tcaagagcaa gtaccaagat gaactcattg 120
ccaatgctgc ttacattggc accccagga agggatcct tgctgctgat gagtcaactg 180
gtacaattgg caagcgattg gccagcatta atgtcgagaa tgttgaagca aataggcgtg 240
ctcttcgtga actcctattc accacacctg gt 272

<210> 1970
<211> 263
<212> DNA
<213> Glycine max

<400> 1970

cggttgcttc tcacttcgtc aaaaccaacc aaaccctcc ccaattctca agccaaccat 60
gtcttccttc aagagcaagt accaagatga actcattgcc aatgctgctt acattggcac 120
cccaggaag ggtatccttg ctgctgatga gtcaactggc acaattggca agcgattggc 180
cagcattaat gtcgagaatg ttgaagcaaa taggcgtgct cttcgtgaac tcctattcac 240
cacacctggg gcttttgagt gcc 263

<210> 1971
<211> 299
<212> DNA
<213> Glycine max

<220>
<221> unsure
<222> (1)..(299)
<223> unsure at all n locations

<400> 1971

gtcttcnnan ttcgtcaaaa ccaaccaaac cctccccaa ttctcaagcc aaccatgtnt 60

cnccttcaag agcaagtaen aagatgaact cattgccaat gctgcttaca ttggcacccc 120
 aggggaaggggt atccttgctg ctgatgagtc aactgggtaca attggcaagc gattggccag 180
 cattaatgtc gagaatgttg aagcaaatag gcgtgctctt cgtgaactcc tattcaccac 240
 acctgggtgct tttgagtgcc tcatgggtg atcttggttg aggaaaccct ataccaaaa 299

<210> 1972
 <211> 235
 <212> DNA
 <213> Glycine max

<400> 1972

ttctcacttc gtcaaaacca accaaacccc tccccaattc tcaagccaac catgtcttcc 60
 ttcaagagca agtaccaaga tgaactcatt gccaatgctg cttacattgg caccaccagg 120
 aagggtatcc ttgctgctga tgagtcaact ggtacaattg gcaagcgatt ggccagcatt 180
 aatgtcgaga atgttgaagc aaataggcgt gctcttcgtg aactcctatc cacca 235

<210> 1973
 <211> 261
 <212> DNA
 <213> Glycine max

<400> 1973

cgttgtcttc tcacttcgtc aaaaccaacc aaacccctcc ccaattctca agccaaccat 60
 gtcttccttc aagagcaagt accaagatga actcattgcc aatgctgctt acattggcac 120
 cccaggggaag ggtatccttg ctgctgatga gtcaactggc acaattggca agcgattggc 180
 cagcattaat gtcgagaatg ttgaagcaaa taggcgtgct ctctgtgaac tcctattcac 240
 cacacctggg gcttttgagt g 261

<210> 1974
 <211> 256
 <212> DNA
 <213> Glycine max

<400> 1974

ctcgagccgc gttgtcttct cacttcgtca aaaccaacca aagcactccc caattctcaa 60
 gccaaccatg tcgtccttca agagcaagta ccaagatgaa ctcatcgcca atgctgctta 120

cattggcacc ccaggggaagg gtatccttgc tgctgatgag tcagctggta caattggcaa 180
gogagggggcc agcattaatg tcgagaatgt tgaagcagat aggcggtgctc tgcgtgaact 240
cctattcacc acacct 256

<210> 1975
<211> 216
<212> DNA
<213> Glycine max

<400> 1975

agaaccgttg tcttctcact tcgtcaaaac caaccaaacc cctccccaat tctcaagcca 60
accatgtctt ccttcaagag caagtaccaa gatgaactca ttgccaatgc tgcttacatt 120
ggcaccaccag ggaagggtat ccttgctgct gatgagtcaa ctgggtacaat tggaaagcga 180
ttggccagca ttaatgtcga gaatgttgaa ccaata 216

<210> 1976
<211> 212
<212> DNA
<213> Glycine max

<220>
<221> unsure
<222> (1)..(212)
<223> unsure at all n locations

<400> 1976

ccgttgtntt ctcacttcgt canaaccaac caaacccctc cccaattctc aagccaacca 60
tgtcttcctt caagagcang taccaagntg aactcattgc caatgctgct nacattggca 120
ccccagggaa gggatcctt gctgctgatg ngtaactgg tacaattggc aagcgattgg 180
ccagcattan tgcgagnnt gttgaagcaa at 212

<210> 1977
<211> 147
<212> DNA
<213> Glycine max

<400> 1977

ccaattctca agccaaccat gtcttccttc aagagcaagt accaagatga actcattgcc 60
aatgctgctt acattggcac cccaggggaag ggtatccttg ctgctgatga gtcaactggt 120

acaattggca agcgattggc cagcatt

147

<210> 1978
<211> 276
<212> DNA
<213> Glycine max

<400> 1978

caaggttgaa catcatcaca ttcgtacaac aaccaaccaa acccctccac aattctcagc 60

caaccatgtc ttccttcaca agcaagtacc aagatgaact cattgccaat gctgcttaca 120

ttggcacccc agggaagggt ctccttgctg ctgatgaatc actggtacaa ttggcaagcg 180

cttggccagc attaatgtcg agaatgttga agcacatagg cgtgctcttc gtgaactcct 240

attcaccaca cctgggtgctt ttgagtgcct cagtgg 276

<210> 1979
<211> 272
<212> DNA
<213> Glycine max

<220>
<221> unsure
<222> (1)..(272)
<223> unsure at all n locations

<400> 1979

gcctctgcat cagcatctct gctcaagtct tcacttggtc ttgacaagtc tgantgggtg 60

aagggacaaa nccttcgcca accttctgca tcagttgtna gatgcaaccc caccacccca 120

tcaggcctca ccatcagagc tgggttcctat gctgatgagc tcgttaagac cgcgaaaaca 180

gtggcttcac caggggagggg tattttggcc atggatgant ccaatgctac ctgtgggaag 240

cgtttggctt caattgggct agagaacact ga 272

<210> 1980
<211> 295
<212> DNA
<213> Glycine max

<400> 1980

tgcagtagtg ctaagtgcta acacctgcag tgaacaatgg cctctgcac agcatctctg 60

ctcaagtctt cacttggttct tgacaagtct gagggggtga agggacaaac ccttcgccaa 120
ccttctgcat cagttgtgag atgcaacccc accaccccat caggcctcac catcagagct 180
ggttcctatg ctgatgagct cgttaagacc gcgaaaacag tggcttcacc agggaggggt 240
attttgGCCa tggatgagtc caatgctacc tgtgggaagc gtttggttc aattg 295

<210> 1981
<211> 286
<212> DNA
<213> Glycine max

<400> 1981

gcagtgaaca atggcctctg catcagcatc tctgctcaag tcttcacttg ttcttgacaa 60
gtctgagtgg gtgaaggac aaacccttcg ccaaccttct gcatcagttg tgagatgcaa 120
ccccaccacc ccacaggcc tcaccatcag agctgggtcc tatgctgatg agctcgtaa 180
gaccgcgaaa acagtggctt caccaggag gggatatttg gccatggatg agtccaatgc 240
tacctgtggg aagcggttgg cttcattggg ctagagacat gaagct 286

<210> 1982
<211> 229
<212> DNA
<213> Glycine max

<400> 1982

catctctgct caagtcttca cttgttcttg acaagtctga gtgggtgaag ggacaaaccc 60
ttcgccaacc ttctgcatca gttgtgagat gcaacccac caccatca ggcctcacca 120
tcagagctgg ttctatgct gatgagctcg ttaagaccgc gaaaacagtg gcttcaccag 180
ggaggggtat tttggccatg gatgagtcca atgctacctg tgggaagcg 229

<210> 1983
<211> 263
<212> DNA
<213> Glycine max

<400> 1983

gacaagtctg agtgggtgaa gggacaaaca cttcgccaac cttctgctgc atcagttgtg 60
agatgcaacc ccaccacccc atcaggcctc accatcagag ctgggtccta tgctgatgag 120

ctcgттаага ccgcgaaacc agtggcttca ccagggaggg gtattatggc catggatgag 180
 tccaatgcta cctgtgggaa gcgtttggct tcaattgggc tagagaacac tgaagctaac 240
 cgccagcata ccgtaccctc ctt 263

<210> 1984
 <211> 274
 <212> DNA
 <213> Glycine max

<400> 1984

gcagtagtgc taagtgctaa cacctgcagt gaacaatggc ctctgcatca gcatctctgc 60
 tcaagtcttc acttgttctt gccaaagtctg agtgggtgaa gggacaaacc cttcgccaac 120
 cttctgcatc agttgtcaga tgcaacccca ccaccccatc aggccctacc atcagagctg 180
 gttcctatgc tgatgagctc gttaagaccg cgaaaacagt ggcttcacca gggaggggta 240
 ttttggccat ggatgagtcc actgctacct gtgg 274

<210> 1985
 <211> 293
 <212> DNA
 <213> Glycine max

<220>
 <221> unsure
 <222> (1)..(293)
 <223> unsure at all n locations

<400> 1985

tacaaaggnt gctgtaggag ataagattnc agtagtgcta agtgctaaca cctgcagtga 60
 acantggcct ctgcatcagc atctctgctc aagtcttcac ttgttcttga caagtctgag 120
 tgggtgaagg gncaaaccct tcgccaacct tctgcatcag ttgtgagntg caaccccacc 180
 accccatcag gcctcaccat cagagctggg tcctatgctg atgagctcgt taagaccgcg 240
 aaaacagtgg cttcaccaag gaggggtatt ttggccatgg ntgagtccaa tgc 293

<210> 1986
 <211> 265
 <212> DNA
 <213> Glycine max

<400> 1986

gattgcagta gtgctaagtg ctaacacctg cagtgaacaa tggcctctgc atcagcatct 60
ctgctcaagt cttcacttgt tcttgacaag tctgagtggg tgaagggaca aacccttcgc 120
caaccttctg catcagttgt gagatgcaac cccaccaccc catcaggcct caccatcaga 180
gctgggttcct atgctgatga gctcgtaaag accgcgaaaa cagtggcttc accagggagg 240
ggatattttg ccatggatga gtcca 265

<210> 1987
<211> 282
<212> DNA
<213> Glycine max

<400> 1987

aaaggttgct gtaggagata agattgcagt agtgctaagt gctaacacct gcagtgaaca 60,
atggcctctg catcagcatc tctgctcaag tcttcacttg ttcttgacaa gtctgagtgg 120
gtgaaggggac aaacccttcg ccaaccttct gcatcagttg tgagatgcaa ccccaccacc 180
ccatcaggcc tcaccatcag agctggttcc tatgctgatg agctcgtaa gaccgcgaaa 240
acagtggctt caccagggag gggatattttg gccatggatg ag 282

<210> 1988
<211> 251
<212> DNA
<213> Glycine max

<400> 1988

tagtgctaag tgctaacacc tgcagtgaac aatggcctct gcatcagcat ctctgctcaa 60
gtcttcactt gttcttgaca agtctgagtg ggtgaaggga caaacccttc gccaaccttc 120
tgcacagtt gtgagatgca accccaccac cccatcaggc ctcaccatca gagctggttc 180
ctatgctgat gagctcgtaa agaccgcgaa aacagtggct tcaccaggga ggggtatttt 240
ggacatggat g 251

<210> 1989
<211> 273
<212> DNA
<213> Glycine max

<400> 1989

eggctcgagg gagataagat tgcagtagtg ctaagtgcta acacctgcag tgaacaatgg 60
 cctctgcatc agcatctctg ctcaagtctt cacttgttct tgacaagtct gagtgggtga 120
 agggacaaac ccttcgcaa ccttctgcat cagttgtgag atgcaacccc accaccccat 180
 caggcctcac catcagagct ggttcctatg ctgatgagct cgtaagacc gcgaaaacag 240
 tggcttcacc agggaggggt attttggcca tgg 273

<210> 1990
 <211> 286
 <212> DNA
 <213> Glycine max

<400> 1990

cagattgcag tagtgctaag tgctaacacc tgcagtgaac aatggcctct gcatcagcat 60
 ctctgctcaa gtcttcactt gttcttgaca agtctgagtg ggtgaaggga caaaccttc 120
 gccaaccttc tgcacagtt gtgagatgca acccaccac cccatcaggc ctcaccatca 180
 gagctgggtc ctatgctgat gagctcgta agaccgcga aacagtggct tcaccagggc 240
 ggggtattcc tccatggat gagctcaatg ctccctgtgg gaagcg 286

<210> 1991
 <211> 272
 <212> DNA
 <213> Glycine max

<400> 1991

caaaggttgc tgtaggagat aagattgcag tagtgctaag tgctaacacc tgcagtgaac 60
 aatggcctct gcatcagcat ctctgctcaa gtcttcactt gttcttgaca agtctgagtg 120
 ggtgaaggga caaaccttc gccaaccttc tgcacagtt gtgagatgca acccaccac 180
 cccatcaggc ctcaccatca gagctgggtc ctatgctgat gagctcgta agaccgcga 240
 aacagtggct tcaccaggga ggggtatttt gg 272

<210> 1992
 <211> 280
 <212> DNA
 <213> Glycine max

<400> 1992

tacaaagggtt gctgtaggag ataagattgc agtagtgcta agtgctaaca cctgcagtga 60
 acaatggcct ctgcatcagc atctctgctc aagtcttcac ttgttcttga caagtctgag 120
 tgggtgaagg gacaaaccct tcgccaacct tctgcatcag ttgtgagatg caaccccacc 180
 accccatcag gcctcaccat cagagctggg tcttatgctg atgagctcgt taagaccgcg 240
 aaaacagtgg cttcaccagg gaggggtatt ttggccatgg 280

<210> 1993
 <211> 284
 <212> DNA
 <213> Glycine max

<400> 1993

aagggttgctg taggagataa gattgcagta gtgctaagt ctaacacctg cagtgaacaa 60
 tggcctctgc atcagcatct ctgctcaagt cttcacttgt tcttgacaag tctgagtggg 120
 tgaagggaca aacccttcgc caaccttctg catcagttgt gagatgcaac cccaccaccc 180
 catcaggcct caccatcaga gctgggtcct atgctgatga gctcgtaag accgcgaaaa 240
 cagtgggttca ccaggagggg gtatatttggc catggatgag tcca 284

<210> 1994
 <211> 274
 <212> DNA
 <213> Glycine max

<400> 1994

tacaaagggtt gctgtaggag ataagattgc agtagtgcta agtgctaaca cctgcagtga 60
 acaatggcct ctgcatcagc atctctgctc aagtcttcac ttgttcttga caagtctgag 120
 tgggtgaagg gacaaaccct tcgccaacct tctgcatcag ttgtgagatg caaccccacc 180
 accccatcag gcctcaccat cagagctggg tcttatgctg atgagctcgt taagaccgcg 240
 aaaacagtgg cttcaccagg gaggggtatt ttgg 274

<210> 1995
 <211> 252
 <212> DNA
 <213> Glycine max

<400> 1995

aggagataag attgcagtag tgctaagtgc taacacctgc agtgaacaat ggcctctgca 60
 tcagcatctc tgctcaagtc ttcacttggt cttgacaagt ctgagtgggt gaagggacaa 120
 acccttcgcc aaccttctgc atcagttgtg agatgcaacc ccaccacccc atcaggcctc 180
 accatcagag ctggttctta tgctgatgag ctggttaaga ccgcgaaaac agtggcttca 240
 ccagggaggg gt 252

<210> 1996
 <211> 269
 <212> DNA
 <213> Glycine max

<400> 1996

caaaggttgc tgtaggagat aagattgcag tagtgctaag tgctaacacc tgcagtgaac 60
 aatggcctct gcatcagcat ctctgctcaa gtcttcactt gttcttgaca agtctgagtg 120
 ggtgaaggga caaaccttc gccaaccttc tgcattcagtt gtgagatgca accccaccac 180
 cccatcaggc ctcaccatca gagctgggtc ctatgctgat gagctcgta agaccgcgaa 240
 aacagtggct tcaccaggga ggggtattt 269

<210> 1997
 <211> 256
 <212> DNA
 <213> Glycine max

<400> 1997

ctcgagccga taagattgca gtagtgctaa gtgctaacac ctgcagtga caatggcctc 60
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 acaaaccctt cgcaaccttc tgcattcagtt gtgagatgca accccaccac cccatcaggc 180
 ctcaccatca gagctgggtc ctatgctgat gagctcgta agaccgcgaa aacagtggct 240
 tcaccaggga ggggta 256

<210> 1998
 <211> 273
 <212> DNA
 <213> Glycine max

<400> 1998

ggctcataca aaggttgctg aggagataag attgcagtag tgctaagtgc taacacctgc 60
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 ctgagtgggt gaagggacaa acccttcgcc aaccttctgc atcagttgtg agatgcaacc 180
 ccaccacccc atcaggcctc accatcagag ctggttccta tgctgatgag ctcgttaaga 240
 ccgcgaaaac agtggcttca ccaggagggt gta 273

<210> 1999
 <211> 262
 <212> DNA
 <213> Glycine max

<400> 1999

caaaggttgc tgtaggagat aagattgcag tagtgctaag tgctaacacc tgcagtgaac 60
 aatggcctct gcatcagcat ctctgctcaa gtcttcactt gttcttgaca agtctgagt 120
 ggtgaaggga caaaccttc gccaaccttc tgcatcagtt gtgagatgca accccaccac 180
 cccatcaggc ctcaccatca gagctggttc ctatgctgat gagctcgta agaccgcga 240
 aacagtggct tcaccaggga gg 262

<210> 2000
 <211> 262
 <212> DNA
 <213> Glycine max

<400> 2000

acaaaggttg ctgtaggaga taagattgca gtagtgctaa gtgctaacac ctgcagtga 60
 caatggcctc tgcacagca tctctgctca agtcttcact tgttcttgac aagtctgagt 120
 ggggtgaagg acaaaccctt cgccaacctt ctgcacagtt tgtgagatgc aacccacca 180
 cccatcagg cctcaccatc agagctgggt cctatgctga tgagctcggt aagaccgca 240
 aaacagtggc ttcaccagg ag 262

<210> 2001
 <211> 268
 <212> DNA
 <213> Glycine max

<400> 2001

catacaaagg ttgctgtagg agataagatt gcagtagtgc taagtgctaa cacctgcagt 60
 gaacaatggc ctctgcatca gcattctctgc tcaagtcttc acttggttctt gacaagtctg 120
 agtgggtgaa gggacaaacc cttcgccaac cttctgcatc agttgtgaga tgcaacccca 180
 ccaccccatc aggccctacc atcagagctg gttcctatgc tgatgagctc gttaagaccg 240
 cgaaaacagt ggcttcacca gggagggg 268

<210> 2002
 <211> 267
 <212> DNA
 <213> Glycine max

<400> 2002

taaaaaggtt gctgtaggag ataagattgc agtagtgcta agtgctaaca cctgcagtga 60
 acaatggcct ctgcatcagc atctctgctc aagtcttcac ttgttcttga caagtctgag 120
 tgggtgaagg gacaaaccct tcgccaacct tctgcatcag ttgtgagatg caacccacc 180
 acgccatcag gcctcaccat cagagctggg tcctatgctg atgagctcgt taagaccgag 240
 aaaacagtgg cttcaccagg gaggggt 267

<210> 2003
 <211> 248
 <212> DNA
 <213> Glycine max

<400> 2003

gattgcagta gtgctaagtg ctaacacctg cagtgaacaa tggcctctgc atcagcatct 60
 ctgctcaagt cttcacttgt tottgacaag tctgagtggg tgaagggaca aacccttcgc 120
 caaccttctg catcagttgt gagatgcaac ccaccaccc catcaggcct caccatcaga 180
 gctggttcct atgctgatga gctcgttatc accgcgaaaa cagtggcttc accagggagg 240
 ggtatttt 248

<210> 2004
 <211> 258
 <212> DNA
 <213> Glycine max

<400> 2004

tacaaagggtt gctgtaggag ataagattgc agtagtgcta agtgctaaca cctgcagtga 60
 acaatggcct ctgcatcagc atctctgctc aagtcttcac ttgttcttga caagtctgag 120
 tgggtgaagg gacaaaccct tcgccaacct tctgcatcag ttgtgagatg caaccccacc 180
 accccatcag gcctcaccat cagagctggg tcctatgctg atgagctcgt taagaccgcg 240
 aaaacagtgg cttcacca 258

<210> 2005
 <211> 249
 <212> DNA
 <213> Glycine max

<400> 2005

aggttgctgt aggagataag attgcagtag tgctaagtgc taatgcctgc agtgaacaat 60
 ggcctctgca tcagcatctc tgctcaagtc ttcacttggt cttgacaagt ctgagtgggt 120
 gaagggacaa acccttcgcc aaccttctgc atcagttgtg agatgcaacc ccaccacccc 180
 atcaggcctc accatcagag ctgggtccta tgctgatgag ctcgttaaga ccgcgaaaac 240
 agtggcttc 249

<210> 2006
 <211> 258
 <212> DNA
 <213> Glycine max

<400> 2006

tacaaagggtt gctgtaggag ataagattgc agtagtgcta agtgctaaca cctgcagtga 60
 acaatggcct ctgcatcagc atctctgctc aagtcttcac ttgttcttga caagtctgag 120
 tgggtgaagg gacaaaccct tcgccaacct tctgcatcag ttgtgagatg caaccccacc 180
 accccatcag gcctcaccat cagagctggg tcctatgctg atgagctcgt taagaccgcg 240
 aaaacagtgg cttcacca 258

<210> 2007
 <211> 257
 <212> DNA
 <213> Glycine max

<400> 2007

caaaggttgc tgtaggagat aagattgcag tagtgctaag tgctaacacc tgcagtgaac 60
 aatggcctct gcatcagcat ctctgctcaa gtcttcactt gttcttgaca agtctgagtg 120
 ggtgaaggga caaaccttc gccaaccttc tgcattcagtt gtgagatgca accccaccac 180
 cccatcaggc ctcaccatca gagctgggtc ctatgctgat gagctcgta agaccgcgaa 240
 aacagtggct tcaccag 257

<210> 2008
 <211> 256
 <212> DNA
 <213> Glycine max

<400> 2008

taaaaatggt gctgtaggag ataagattgc agtagtgcta agtgctaaca cctgcagtga 60
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 tgggtgaagg gacaaacct tcgccaacct tctgcatcag ttgtgagatg caaccccacc 180
 accccatcag gcctcaccat cagagctggc tcctatgctg atgagctcgt taagaccgcg 240
 aaaacagtgg cttcac 256

<210> 2009
 <211> 253
 <212> DNA
 <213> Glycine max

<400> 2009

gggttgctgta ggagataaga ttgcagtagt gctaagtgt aacacctgca gtgaacaatg 60
 gcctctgcat cagcatctct gctcaagtct tcacttggtc ttgacaagtc tgagtgggtg 120
 aagggacaaa cccttcgcca accttctgca tcagttgtga gatgcaaccc caccacccca 180
 tcaggcctca ccatcagagc tggttcctat gctgatgagc tcgttaagac cgcgaaaaca 240
 gtggettcac cag 253

<210> 2010
 <211> 273
 <212> DNA
 <213> Glycine max

<400> 2010

tacaaagggtt gctgtaggag ataagattgc agtagtgcta agtgctaaca cctgcagtgt 60
acaatggcct ctgcatcagc atctctgctc aagtcttcac ttgttcttga caagtctgag 120
tgggtgaagg gacaaaccct tcgccaacct tctgcatcag ttgtgagatg caaccccacc 180
accccatcag gcctcaccat cagagctggg tcttatgctg atgagctcgt taagatggcg 240
aaaacagtgg cttcaccagg gaggggtatt ttg 273

<210> 2011
<211> 265
<212> DNA
<213> Glycine max

<400> 2011

aaaggttgct gtaggagata agattgcagt agtgctaagt gctaacacct gcagtgaaca 60
atggcctctg catcagcatc tctgctcaag tcttcacttg ttcttgacaa gtctgattgg 120
gtgaagggac aaacccttcg ccaaccttct gcatcagttg tgagatgcaa cccaccacc 180
ccatcaggcc tcaccatcag agctgggtcc tatgctgatg agctcgtaa gaccgcgaaa 240
acagtggcct caccaggag gggta 265

<210> 2012
<211> 265
<212> DNA
<213> Glycine max

<220>
<221> unsure
<222> (1)..(265)
<223> unsure at all n locations

<400> 2012

ctaaggtttn ctgtaggaga taagattgca gtagagctaa gtgctaacac ctgcagtga 60
caatggcctc tgcacagca tctctgctca agtcttcact tgttcttgac aagtctgagt 120
gggtgaaggg acaaaccctt cgccaacctt ctgcatcagt tngagatgc aaccccacca 180
cccatcagg cctcaccatc agagctgggt cctatgctga tgagctcgtt aagaccgcga 240
aaacagtggc ttcaccaggg agggg 265

<210> 2013

<211> 257
 <212> DNA
 <213> Glycine max

 <400> 2013

 acaaaggttg ctgtaggaga taagattgca gtagtgctaa gtgctaacac ctgcagtgaa 60
 caatggcctc tgcacagca tctctgctca agtcttcact tgttcttgac aagtctgagt 120
 ggggtgaagg acaaaccctt cgccaacctt ctgcacagc tgtgagatgc aacccaccca 180
 ccccatcagg cctcaccatc agagctgggt cctatgctga tgagctcggt aagaccgcga 240
 aaacagtggc ttcacca 257

<210> 2014
 <211> 265
 <212> DNA
 <213> Glycine max

 <400> 2014

 caaaggttgc ttaggagat aagattgcag tagtgctaag tgctaacacc tgcagtgaac 60
 aatggcctct gcatcagcat ctctgctcaa gtcttcaggt gttcttgaca agtctgagt 120
 ggtgaaggga caaaccttc gccaaccttc tgcacagctt gtgagatgca accccaccac 180
 cccatcaggc ctcaccatca gagctgggtt ctatgctgat gagctcgta agaccgcga 240
 aacagtggct tcaccatgga ggggt 265

<210> 2015
 <211> 255
 <212> DNA
 <213> Glycine max

 <400> 2015

 atacaaaggt tgctgtagga gataagattg cagtagtgct aagtgctaac acctgcagt 60
 aacaatggcc tctgcatcag catctctgct caagtcttca cttgttcttg acaagtctga 120
 gtgggtgaag ggacaaacc ttcgccaacc ttctgcatca gttgtgagat gcaacccac 180
 caccatca ggcctcacca tcagagctgg ttctatgct gatgagctcg ttaagaccgc 240
 gaaaacagtg gcttc 255

<210> 2016

<211> 264
 <212> DNA
 <213> Glycine max

 <220>
 <221> unsure
 <222> (1)..(264)
 <223> unsure at all n locations

 <400> 2016

 caaaggttgc ttaggagat aagattgcag tagtgctaag tgctaacacc tgcagtgaac 60
 aatggccttc tgcacagca tctctgctca agtcttcaact tgttcttgac aagtctgagt 120
 ggggtgaagg acaaaccctt cgccaacctt ctgcatcagt tgtgagatgc aacccaccca 180
 ccccatcagg cctcncatc agagctgggt cctatgctga tgagctcggt aagaccgcga 240
 aaacagtggc ttcaccangg aggg 264

<210> 2017
 <211> 250
 <212> DNA
 <213> Glycine max

 <400> 2017

 caaaggttgc ttaggagat aagattgcag tagtgctaag tgctaacacc tgcagtgaac 60
 aatggcctct gcatcagcat ctctgctcaa gtcttcaact gttcttgaca agtctgagtg 120
 ggtgaaggga caaacccttc gccaaccttc tgcacagtt gtgagatgca accccaccac 180
 cccatcaggc ctcaccatca gagctgggtt ctatgctgat gagctcggtta agaccgcgaa 240
 aacagtggct 250

<210> 2018
 <211> 250
 <212> DNA
 <213> Glycine max

 <400> 2018

 caaaggttgc ttaggagat aagattgcag tagtgctaag tgctaacacc tgcagtgaac 60
 aatggcctct gcatcagcat ctctgctcaa gtcttcaact gttcttgaca agtctgagtg 120
 ggtgaaggga caaacccttc gccaaccttc tgcacagtt gtgagatgca accccaccac 180
 cccatcaggc ctcaccatca gagctgggtt ctatgctgat gagctcggtta agaccgcgaa 240

aacagtggct 250

<210> 2019
<211> 246
<212> DNA
<213> Glycine max
<400> 2019

caaaggttgc tgtaggagat aagattgcag tagtgctaag tgctaacacc tgcagtgaac 60
aatggcctct gcatcagcat ctctgctcaa gtcttcactt gttcttgaca agtctgagtg 120
gggtgaaggga caaaccttcc gccaaccttc tgcattcagtt gtgagatgca accccaccac 180
cccatcaggc ctcaccatca gagctgggtc ctatgctgat gagctcgta agaccgcga 240
aacagt 246

<210> 2020
<211> 252
<212> DNA
<213> Glycine max
<400> 2020

acaaaggttg ctgtaggaga taagattgca gtagtgctaa gtgctaacac ctgcagtga 60
caatggcctc tgcattcagca tctctgctca agtcttcact tgttcttgac aagtctgagt 120
gggtgagggg acaaaccctt cgccaacctt ctgcattcagtt tgtgagatgc aaccaccaca 180
cccatcagg cctcaccatc agagctgggt cctatgctga tgagctcgtt aagaccgcga 240
aaacagtggc tt 252

<210> 2021
<211> 248
<212> DNA
<213> Glycine max
<400> 2021

tacaaaggtt gctgtaggag ataagattgc agtagtgcta agtgctaaca cctgcagtga 60
acaatggcct ctgcattcagc atctctgctc aagtcttcac ttgttcttga caagtctgag 120
tgggtgaagg gacaaacctc tcgccaacct tctgcattcag ttgtgagatg caaccaccac 180
acccattcag gcctcaccat cagagctggg tcctatgctg atgagctcgt taagaccgcg 240

aaaacagt 248

<210> 2022
<211> 260
<212> DNA
<213> Glycine max

<400> 2022

caaaggttgc ttaggagat aagattgcag tagtgcaaag tgctaacacc tgcagtgaac 60
aatggcctct gcatcagcat ctctgctcaa gtcttcactt gttcttgaca agtctgagtg 120
ggtgaaggga caaaccttc gccaaccttc tgcattcagtt gtgagatgca accccaccac 180
cccatcaggc ctcaccatca gagctgggtc ctatgctgat gagctcgta agaccgcgaa 240
aacagtggct tcaccaggga 260

<210> 2023
<211> 254
<212> DNA
<213> Glycine max

<400> 2023

caaaggttgc ttaggagat aagattgcag tagtgctaag tgctaacacc tgcagtgaac 60
aatggcctct gcatcagcat ctctgctcaa gtcttcactt gttcttgaca agtctgagtg 120
ggtgaaggga aaaccttcg ccaaccttct gcatcagttg tgagatgcaa cccaccacc 180
ccatcaggcc tcaccatcag agctgggtcc tatgctgatg agctcgtaaa gaccgcgaaa 240
acagtggctt cacc 254

<210> 2024
<211> 258
<212> DNA
<213> Glycine max

<400> 2024

acgttgctgt aggagataag attgcagtag tgctaagtgc taacacctgc agtgaacaat 60
ggcctctgca tcagcatctc tgctcaagtc ttcacttggt cttgacaagt ctgagtgggt 120
gacgggacaa acccttcgcc aaccttctgc atcagttgtg agatgcaacc gcaccacccc 180
atcaggcctc accatcagag ctgggttccta tgctgatgat ctcgtttagga ccgcgacaac 240

agtggcttca ccagggag

258

<210> 2025
<211> 267
<212> DNA
<213> Glycine max

<220>
<221> unsure
<222> (1)..(267)
<223> unsure at all n locations

<400> 2025

gcagtagcgc tangtgctaa cacctgcagt gaacaatggc ctctgcatca gcatctctgg 60
tncaagtctt cacttggtct tgacaagtct gngtgggtga agggacaaac ctttcgccaa 120
ccttctgcat cagttgtgag atgcaacccc accaccccat caggcctcac catcagagnt 180
ggttcctatg ctgatgagct cgttaagacc gcgaaaacag tggcttcacc ncggaggggt 240
at tt t t t g g c c t g g n t g a g t c c a a t g c n c 267

<210> 2026
<211> 270
<212> DNA
<213> Glycine max

<220>
<221> unsure
<222> (1)..(270)
<223> unsure at all n locations

<400> 2026

acaaaggngnng ctgtaggaga taagattgca gtagtgctan gtgctaacac ctgcagtgaa 60
caatggcctc tgcatacaga tctgctgctc aagtcttcac ttgttcttga caagtctgag 120
tgggtgaagg gacaaaccct tcgccaacct tctgcatcag ttgtgagatg caaccccacc 180
accccatcag gcctcaccat cagagctggg tcctatgctg atgagctcgt taagaccgcg 240
aaaacagtgg cttcaccang gaggggtatt 270

<210> 2027
<211> 273
<212> DNA
<213> Glycine max

<400> 2027

acgcgttcgg ctcgagattg cagtagtgct aagtgctaac acctgcagtg tacaatggcc 60
tctgcatcag catctctgct caagtcttca cttgttcttg acaagtctga gtgtgtgaag 120
ggacaaaccc ttcgccaacc ttctgcatca gttgtgagat gcaacccac caccatca 180
ggcctcacca tcagagctgg ttcctatgct gatgagctcg ttaagaccgc gaaaacagtg 240
gcttcacctc ggaggggtat tttggccatg gat 273

<210> 2028

<211> 255

<212> DNA

<213> Glycine max

<400> 2028

acaaagggttg ctgtaggaga taagattgca gtagtgctaa gtgctaacac ctgcagtga 60
caatggcctc tgcattcagca tctctgctca agtcttctact tgttcttgac aagtctgagt 120
gggtgaaggg acaaaccctt cgccaacctt ctgcatcagt tgtgagatgc aacccacca 180
cccatcagg cctcaccatc agagctgggt cctatgctga tgagctcggt aagaccgcga 240
aaacgtggct tcacc 255

<210> 2029

<211> 265

<212> DNA

<213> Glycine max

<220>

<221> unsure

<222> (1)..(265)

<223> unsure at all n locations

<400> 2029

cggtctgagc aaagggttgct gtaggagata agattgcagt tcatgctaag tgctaacacc 60
tgcaagtgaac aatggcctct gcatcagaat ctctgnetca gtcttctactt gttcttgaca 120
agtctgagtg ggtgaaggga caaacccttc gccaaccttc tgcattcagtt gtgagatgca 180
acccaccac cccatcaggc ctcaccatca gagctgggtc ctatgctgat gagctcgta 240
agaccgcgaa aacagtggct tcacc 265

<210> 2030
 <211> 241
 <212> DNA
 <213> Glycine max

 <400> 2030

 taaaaaggtt gctgtaggag ataagattgc agtagtgcta agtgctaaca cctgcagtga 60
 acaatggcct ctgcatcagc atctctgctc aagtcttcac ttgttcttga caagtctgag 120
 tgggtgaagg gacaaaccct tcgccaacct tctgcatcag ttgtgagatg caaccccacc 180
 accccatcag gcctcaccat cagagctggg tcctatgctg atgagctcgt taagaccgcg 240
 a 241

<210> 2031
 <211> 266
 <212> DNA
 <213> Glycine max

 <400> 2031

 caaaggttgc ttaggagat aagattgcag tagtgctaag tgctaacacc tgcagtgaac 60
 aatggcctct gcatcagcat ctctgctcaa gtcttcactt gttcttgaca agtctgagtg 120
 ggtgaaggga caaaccttc gccaaccttc tgcattcagtt gtgagatgca accctacaac 180
 cccatcaggc ctcaccatca gagctgggtc ctatgctgat gagctcgtta agaccgcgaa 240
 aacagtggct tcaccaggga ggggtt 266

<210> 2032
 <211> 277
 <212> DNA
 <213> Glycine max

 <400> 2032

 taagattgca gtagtgctaa gtgctaacac ctgcagtga caatggcctc tgcattcagca 60
 tctctgctca agtcttcact tgttcttgac aagtctgagt ggggtgaagg acaaaccctt 120
 cgccaacctt ctgcatcagt tgtgagtgca accccaccac cccatcaggc ctcaccatca 180
 gagctgggtc tatgctgatg agctcgttaa gaccgcgaaa acagtgggtc accagggagg 240
 ggtatttttg ccatggatga gtccatgcta cctgtgg 277

<210> 2033
 <211> 261
 <212> DNA
 <213> Glycine max

 <400> 2033

 taaaaaggtt gctgtaggag ataagattgc agtagtgcta agtgctaaca cctgcagtga 60
 acaatggcct ctgcatcagc atctctgctc aagtcttcac ttgttcttga caagtctgag 120
 tgggtgaagg gacaaaccct tcgccaacct tctgcatcag ttgtgagatg caaccccacc 180
 accccatcag gcctcaccat cagagctggg tcctatgctg agagctcggt aagaccgga 240
 aaacagtggc ttcaccaggg a 261

<210> 2034
 <211> 237
 <212> DNA
 <213> Glycine max

 <400> 2034

 acaaaggttg ctgtaggaga taagattgca gtagtgctaa gtgctaacac ctgcagtga 60
 caatggcctc tgcacagca tctctgctca agtcttcact ttgttcttgac aagtctgagt 120
 ggggtgaaggg acaaaccctt cgccaacctt ctgcatcagt ttgtgagatgc aaccccacca 180
 ccccatcagg cctcaccatc agagctgggt cctatgctga tgagctcggt aagaccg 237

<210> 2035
 <211> 258
 <212> DNA
 <213> Glycine max

 <400> 2035

 gttgctgtag gagataagat tgcagtagtg ctaagtgcta acacctgcag tgaacaatgg 60
 cctctgcac agcatctctg ctcaagtctt cacttggtact tgacaagtct gagggggtga 120
 agggacaaac ccttcgcaa ccttctgcat cagttgtgag atgcaacccc accattacat 180
 caggcacacc atcagagctg gttcctatgc tgatgagctc gttaagaccg cgtaaacagt 240
 agcttcacca tggagggg 258

<210> 2036

<211> 277
 <212> DNA
 <213> Glycine max

 <400> 2036

 acaactacaa aggttgctgt aggagataag atattgaagt agtgctaagt gcctaacacc 60
 tgcagtgaac aatggcctct gcatcagcat ctcttctcaa gtcttcactt gttcttgaca 120
 agtctgagtg ggtgaaggga caaacacttc gccaaccttc tgctgcatca gttgtgagat 180
 gcaaccccac caccocatca ggcttcacaa tcagagctgg ttcctatgct gatgagctcg 240
 ttaagaccgc gaaaacagtg gcttcaccag ggagggg 277

<210> 2037
 <211> 258
 <212> DNA
 <213> Glycine max

 <400> 2037

 taaaaaggtt gctgtaggag ataagattgc agtagtgcta agtgctaaca cctgcagtga 60
 acaatggcct ctgcatcagc atctctgctc aagtcttcac ttgttcttga caagtctgag 120
 tgggtgaagg gacaaaccct tcgccaacct tctggcatca gttgtgagat gcaaccccac 180
 caccocatca ggcttcacca tcagagctgg ttcctatgct gatgagctcg ttaagaccgc 240
 gaaaacagtg gcttcacc 258

<210> 2038
 <211> 234
 <212> DNA
 <213> Glycine max

 <400> 2038

 acaaaggttg ctgtaggaga taagattgca gtagtgctaa gtgctaacac ctgcagtga 60
 caatggcctc tgcatcagca tctctgctca agtcttcact tgttcttgac aagtctgagt 120
 ggggtgaaggg acaaaccctt cgccaacctt ctgcatcagt tgtgagatgc aaccccacca 180
 ccccatcagg cctcaccatc agagctgggt cctatgctga tgagctcggt aaga 234

<210> 2039
 <211> 247
 <212> DNA

<213> Glycine max

<400> 2039

tacaactaca aaggttgctg taggagataa gatattgaag tagtgctaag tgcctaacac 60
ctgcagtga caatggcctc tgcatacagca tctcttctca agtcttcact tgttcttgac 120
aagtctgagt ggggtgaaggg acaaacactt cgccaacctt ctgctgcata agttgtgaga 180
tgcaacccca ccaccccatc aggcctcaca atcagagctg gttcctatgc tgatgagctc 240
gttaaga 247

<210> 2040

<211> 260

<212> DNA

<213> Glycine max

<400> 2040

caactacaaa ggttgctgta ggagataaga tattgaagta gtgctaagtg cctaacacct 60
gcagtgaaca atggcctctg catcagcata tttctcaag tcttcatatg ttcttgacaa 120
gtctgagtgg gtgaaggagc aaacacttcg ccaaccttct gctgcatacag ttgtgagatg 180
caacccacc accccatcag gcctcaccat cagagctggg tcttatgctg atgagctcgt 240
taagaccgcg aaaacagtgg 260

<210> 2041

<211> 259

<212> DNA

<213> Glycine max

<400> 2041

ctcatacaaa ggttgctgta ggagataaga ttgcagtagt gctaagtgt aacacctgca 60
gtgaacaatg gcctctgcat cagcatctct gctcaagtct tcaattgttc ttgacaagtc 120
tgagtgggtg aagggaacaa cccttcgcca accttctgca tcagttgtga gatgcaaccc 180
caccacccca tcaggcctca ccatcagagc tggttcctat gctgatgagc tcgttaagac 240
cgcgaaaaca gtggcttca 259

<210> 2042

<211> 278

<212> DNA

<213> Glycine max
 <220>
 <221> unsure
 <222> (1)..(278)
 <223> unsure at all n locations
 <400> 2042
 caactacaaa ggttgctgta ggagataaga tattgaagta gtgctaagtg cctaacacct 60
 gcagtgaaca atggcctctg catcagcatc tcttctcaag tcttcacttg ttcttgacaa 120
 gtctgagtgg gtgaagggaac aaacacttcg ccaaccttct gctgcatcag ttgtgagatg 180
 caaccccacc accccatcag gcctcacaat cagagctggg tccctatgct gatgagctcg 240
 ttaagaccgc gaaaacagtg gcttnaccag ggaggggt 278

<210> 2043
 <211> 238
 <212> DNA
 <213> Glycine max
 <400> 2043
 ggttgctgta ggagataaga tattgaagta gtgctaagtg cctaacacct gcagtgaaca 60
 atggcctctg catcagcatc tcttctcaag tcttcacttg ttcttgacaa gtctgagtgg 120
 gtgaagggaac aaacacttcg ccaaccttct gctgcatcag ttgtgagatg caaccccacc 180
 accccatcag gcctcaccat cagagctggg tccctatgctg atgagctcgt taagaccg 238

<210> 2044
 <211> 260
 <212> DNA
 <213> Glycine max
 <220>
 <221> unsure
 <222> (1)..(260)
 <223> unsure at all n locations
 <400> 2044
 ctacaaaggt tgctgtagga gataagattg cagtagtgct aagtgctaac acctgcagtg 60
 ancaatggcc tctgcatcag catctctgct caagtcttca cttgtncctg acaagtctga 120
 gtgggtgaag ggacaaaccc ttgcgcaacc ttctgentca gtngtgagat gcaaccccac 180

caccccatca ggcctcacca tcaganctgg ttcctatgct gatgagtcgt taagaccgcg 240
 aaaacagtgg ttcnccaggg 260

<210> 2045
 <211> 223
 <212> DNA
 <213> Glycine max

<400> 2045

aaaggttgct gtaggagata agattgcagt agtgctaagt gctaacacct gcagtgaaca 60
 atggcctctg catcagcatc tctgctcaag tcttcacttg ttcttgacaa gtctgagtgg 120
 gtgaagggac aaacccttcg ccaaccttct gcatcagttg tgagatgcaa cccaccacc 180
 ccatcaggcc tcaccatcag agctggttcc tatgctgatg agc 223

<210> 2046
 <211> 243
 <212> DNA
 <213> Glycine max

<400> 2046

aactacaaag gttgctgtag gagataagat attgaagtag tgctaagtgc ctaacacctg 60
 cagtgaacaa tggcctctgc atcagcatct cttctcaagt cttcacttgt tcttgacaag 120
 tctgagtggg tgaagggaca aacacttcgc caaccttctg ctgcatcagt tgtgagatgc 180
 aacccaccca ccccatcagg cctcaccatc agagctgggt cctatgctga tgagctcggt 240
 aag 243

<210> 2047
 <211> 245
 <212> DNA
 <213> Glycine max

<400> 2047

caactacaaa ggttgctgta ggagataaga tattgaagta gtgctaagtg cctaacacct 60
 gcagtgaaca atggcctctg catcagcatc tcttctcaag tcttcacttg ttcttgacaa 120
 gtctgagtgg gtgaagggac aaacacttcg ccaaccttct gctgcatcag ttgtgagatg 180
 caacccacc accccatcag gcctcacaat cagagctgggt tcctatgctg atgagctcgt 240

taaga 245

<210> 2048
<211> 273
<212> DNA
<213> Glycine max

<400> 2048

gcaactacaa aggttgctgt aggagataag atattgaagt agtgctaagt gcctaacacc 60
tgcagtgaac aatggcctct gcatcagcat ctcttctcaa gtcttcactt gttcttgaca 120
agtctgagtg ggtgaaggga caaacacttc gccaaccttc tgctgcatca gttgtgagat 180
gcaacccccac caccatca ggcctcaca tcagagctgg ttcctatggc tgatgagctc 240
gttaagaccg cgaaaacagt ggcttcacca ggg 273

<210> 2049
<211> 245
<212> DNA
<213> Glycine max

<400> 2049

tacaactaca aaggttgctg taggagataa gatattgaag tagtgctaag tgcctaacac 60
ctgcagtga caatggcctc tgcacagca tctcttctca agtcttcact tgttcttgac 120
aagtctgagt ggggtgaagg acaaacactt cgccaacctt ctgctgcatc agttgtgaga 180
tgcaacccca ccacccatc aggcctcaca atcagagctg gttcctatgc tgatgagctc 240
gttaa 245

<210> 2050
<211> 263
<212> DNA
<213> Glycine max

<220>
<221> unsure
<222> (1)..(263)
<223> unsure at all n locations

<400> 2050

tacaactaca aaggttgctg taggagataa gatattgaag tagtgctaag tgcctaacac 60
ctgcagtga caatggcctc tgcacagca tctcttctca agtcttcact tgttcttgac 120

aagtctgagt ggggtgaagg acaaacactt cgccaacctt ctgctgcac agttgtgaga 180
 tgcaacccca ccaccccatc aggcctcaca atcagagctg ntctctatgc tgatncagct 240
 cgttaagacc gcgaaaacag tgg 263

<210> 2051
 <211> 245
 <212> DNA
 <213> Glycine max

<400> 2051

gcatacaact acaaagggtg ctgtaggaga taagatattg aagtagtgct aagtgcctaa 60
 cacctgcact gaacaatggc ctctgcatca gcatctcttc tcaagtcttc acttgttctt 120
 gacaagtctg agtgggtgaa gggacaaaca ctctcgccaac cttctgctgc atcagttgtg 180
 agatgcaacc ccaccacccc atcaggcctc accatcagag ctggttccta tgctgatgag 240
 ctctgt / 245

<210> 2052
 <211> 220
 <212> DNA
 <213> Glycine max

<400> 2052

tacaaagggt gctgtaggag ataagattgc agtagtgcta agtgctaaca cctgcagtga 60
 acaatggcct ctgcatcagc atctctgctc aagtcttcac ttgttcttga caagtctgag 120
 tgggtgaagg gacaaaccct tcgccaacct tctgcatcag ttgtgagatg caaccccacc 180
 accccatcag gcctcaccat cagagctggt tcctatgctg 220

<210> 2053
 <211> 221
 <212> DNA
 <213> Glycine max

<400> 2053

cggctcgagg ttgctgtagg agataagatt gcagtagtgc taagtgctaa cacctgcagt 60
 gaacaatggc ctctgcatca gcatctctgc tcaagtcttc acttgttctt gacaagtctg 120
 agtgggtgaa gggacaaacc ctctcgccaac cttctgcac agttgtgaga tgcaacccca 180

ccaccccatc aggcctcacc atcagagctg gttcctatgc t 221

<210> 2054
 <211> 256
 <212> DNA
 <213> Glycine max

<400> 2054

caactacaaa ggttgctgta ggagataaga tattgaagta gtgctaagtg cctaacacct 60
 gcagtgaaca atggcctctg catcagcatc tcttctcaag tcttcacttg ttcttgacaa 120
 gtctagtggg tgaagggaca aacacttcgc caaccttctg ctgcatcagt tgtgagatgc 180
 aacccccacca ccccatcagg cctcaccatc agagctgggt cctatgctga tgagctcggt 240
 aagaccgcga aaacag 256

<210> 2055
 <211> 288
 <212> DNA
 <213> Glycine max

<220>
 <221> unsure
 <222> (1)..(288)
 <223> unsure at all n locations

<400> 2055

tacaactaca aaggttgctg taggagataa gatattgaag tagtgctaag tgcctaacac 60
 ctgcagtga caatggcctc tgcacagca tctcttctca agtcttcact tgttcttgac 120
 aagtctgagt ggggtgaagg acaaactt cgccaanctt ctgctgcac agttgtgaga 180
 tgcaaccca ccacccatc agggccttca ccatcagagc tggttcccta tgctgatgag 240
 cncgttaag accgcgaaa cagtggcttc accagggagg ggtatttc 288

<210> 2056
 <211> 236
 <212> DNA
 <213> Glycine max

<400> 2056

tacaactaca aaggttgctg taggagataa gatattgaag tagtgctaag tgcctaacac 60

ctgcagtgaa caatggcctc tgcatacagca tctcttctca agtcttcact tgttcttgac 120
aagtctgagt ggggtgaaggg acaaacactt cgccaacctt ctgctgcatac agttgtgaga 180
tgcaacccca ccaccccatc aggcctcacc atcagagctg gttcctatgc tgatga 236

<210> 2057
<211> 240
<212> DNA
<213> Glycine max

<400> 2057

caactacaaa ggttgctgta ggagataaga tattgaagta gtgctaagt cctaacacct 60
gcagtgaaca atggcctctg catcagcatc tcttctcaag tcttcacttg ttcttgacaa 120
gtctgagtgg gtgaagggaac attcacttcg ccaaccttct gctgcatacag ttgtgagatg 180
caacccacc accccatcag gcctcacaat cagagctggg tctatgctg atgagctcgt 240

<210> 2058
<211> 254
<212> DNA
<213> Glycine max

<220>
<221> unsure
<222> (1)..(254)
<223> unsure at all n locations

<400> 2058

acaactacaa aggttgctgt aggagataag atattgaagt agtgctaagt gcctaacacc 60
tgcagtgaac aatggcctct gcatcagcat ctcttctcaa gtcttcactt gttcttgaca 120
agtctgagtg ggtgaaggga caaacacttc gccaaccttc tgnccatca gttgtgagat 180
gcaancccaa caaccattc aggcctcaaa atcngagntg gntcctatgc ngatgagntc 240
ggcaagaccg cgaa 254

<210> 2059
<211> 260
<212> DNA
<213> Glycine max

<400> 2059

acaactacaa aggttgctgt aggagataag atattgaagt agtgctaagt gcctaacacc 60

tgcagtgaac aatggcctct gcatcagcat ctcttctcaa gtcttcactt gttcttgaca 120
 agtctgagtg ggtgaaggga caaacacttc gccaaccttc tgctgcatca gttgtgagat 180
 gcaacccccac caccatca ggcctcacca tcagagctgg ttcctatgct gatgagctcg 240
 ttaagaccgc gaaaacagtg 260

<210> 2060
 <211> 224
 <212> DNA
 <213> Glycine max
 <400> 2060

taaaaaggtt gctgtaggag ataagattgc agtagtgcta agtgctaaca cctgcagtga 60
 acaatggcct ctgcatcagc atctctgctc aagtcttcac ttgttcttga caagtctgag 120
 tgggtgaagg gacaaaccct tcgccaacct tctgcatcag ttgtgagatg caacccccacc 180
 acccatcag gcttcacat cagagctggg tgctatgctg atga 224

<210> 2061
 <211> 239
 <212> DNA
 <213> Glycine max
 <400> 2061

taaaaaggtt gctgtaggag ataagatatt gaagtagtgc taagtgccta acacctgcag 60
 tgaacaatgg cctctgcac agcatctctt ctcaagtctt cacttgcttct tgacaagtct 120
 gagtgggtga agggacaaac acttcgcaa cttctctgctg catcagttgt gagatgcaac 180
 cccaccacc catcaggcct caccatcaga gctgggttct atgctgatga gctcgtaa 239

<210> 2062
 <211> 220
 <212> DNA
 <213> Glycine max
 <400> 2062

caaaggttgc tgtaggagat aagattgcag tagtgctaag tgctaacacc tgcagtgaac 60
 aatggcctct gcatcagcat ctctgctcaa gtcttcactt gttcttgaca agtctgagtg 120
 ggtgaaggga caaaccttc gccaaccttc tgcatcagtt gtgagatgca accccaccac 180

cccatcaggc ctcaccatca gagctgggtc ctatgctgat 220

<210> 2063
 <211> 227
 <212> DNA
 <213> Glycine max

<400> 2063

atacaaaggt tgctgtagga gataagattg cagtagtgct aagtgctaac acctgcagtg 60
 aacaatggcc tctgcatcag catctctgct caagtcttca cttgttcttg acaagtctga 120
 gtgggtgaag ggacaaaccc ttcgccaacc ttctgcatca gttgtgagat gcaacccac 180
 cccccatca ggcctcacca tcagagctgg tccctatgct gatgagc 227

<210> 2064
 <211> 252
 <212> DNA
 <213> Glycine max

<400> 2064

caactacaaa ggttgctgta ggagataaga tattgaagta gtgctaagtg cctaacacct 60
 gcagtgcaca atggcctctg catcagcatc tcttctcaag tcttcacttg ttcttgacaa 120
 gtctgagtgg gtaagggaca aacacttcgc caaccttctg ctgcatcagt tgtgagatgc 180
 aaccccacca ccccatcagg cctcaccatc agagctgggt cctatgctga tgagctcgta 240
 gaccgcgaaa ac 252

<210> 2065
 <211> 265
 <212> DNA
 <213> Glycine max

<220>
 <221> unsure
 <222> (1)..(265)
 <223> unsure at all n locations

<400> 2065

caaaggttgc tgtaggagat aagattgcag tagtgencag tgctaacacc tgcagtgaac 60
 aatggcctct gcatcagcat ctctgctcaa gtcttcactt gttcttgaca agtctgagtg 120

ggtgaaggga caaaccttc gccaaccttc tgcatacgtt gtgagatgca acccccacca 180
 ccccatcagg gcctcaccat cngagctggg tctatgctga tgagcncgtt aaagaccgag 240
 gaaacnntgg gtttcacnag ggggg 265

<210> 2066
 <211> 194
 <212> DNA
 <213> Glycine max

<400> 2066

caaaggttgc ttaggagat aagaatgcag tagtgctaag tcctaacacc tgcagtgaac 60
 aatggcctct gcatcagcat ctctgctcaa gtcttcactt gttcttgaca agtctgagt 120
 ggtgaaggga caaaccttc gccaaccttc tgcatacgtt gtgagatgca accccaccac 180
 cccatcaggc ctca 194

<210> 2067
 <211> 191
 <212> DNA
 <213> Glycine max

<400> 2067

ctcatacaaa ggttgctgta ggagataaga ttgcagtagt gctaagtgtt aacaggtgca 60
 gtgaacaatg gcctctgcat cagcatctct gctcaagtct tcacttggtt ttgacaagtc 120
 tgagtgggtg aagggaacaa cccttcgcca accttctgca tcagttgtga gatgcaaccc 180
 caccaccca t 191

<210> 2068
 <211> 189
 <212> DNA
 <213> Glycine max

<400> 2068

catacaaagg ttgctgtagg agataagatt gcagtagtgc taagtgttaa cacctgcagt 60
 gaacaatggc ctctgcatca gcatctctgc tcaagtcttc acttggttctt gacaagtctg 120
 agtgggtgaa gggacaaacc ctctcgccaac cttctgcata agttgtgaga tgcaaccca 180
 ccaccccat 189

<210> 2069
 <211> 236
 <212> DNA
 <213> Glycine max

<400> 2069

ctacaaaggt tgctgtagga gataagatat tgaagtagtg ctaagtgcct aacacctgca 60
 gtgaacaatg gcctctgcat cagcatctct tctcaagtct tcacttgttc ttgacaagtc 120
 tgagtgggtg aggacaaac acttcgcaa ccttctgctg catcagttgt gagatgcaac 180
 cccaccaccc catcaggcct cacaatcaga gctggttcct atgctgatga gctcgt 236

<210> 2070
 <211> 244
 <212> DNA
 <213> Glycine max

<400> 2070

caactacaaa ggttgctgta ggagataaga tattgaagta gtgctaagtg cctaacacct 60
 gcagtgaaca atggcctctg catcagcatc tcttctcaag tcttcacttg ttcttgacaa 120
 gtctgagtgg gtgaaggga aacacttcgc caaccttctg ctgcatcagt tgtgagatgc 180
 aacccccacca ccccatcagg cctcaccatc agagctgggt cctatgctga tgagctcgtt 240
 aaga 244

<210> 2071
 <211> 130
 <212> DNA
 <213> Glycine max

<400> 2071

gtgctaagtg ctaacacctg cagtgaacaa tggcctctgc atcagcatct ctgctcaagt 60
 cttcacttgt tcttgacaag tctgagtggg tgaaggga aaccttcgc caaccttctg 120
 catcagttgt 130

<210> 2072
 <211> 260
 <212> DNA
 <213> Glycine max

<400> 2072

tacaactaca aaggttgctg taggagataa gatattgaag tagtgctaag tgcctaacac 60

ctgcagtga caatggcctc tgcatacagca tctcttctca agtcttcact tgttcttgac 120

aagtctgagt ggggtgaagg acaaacactt cgccaacctt ctgctgcata agttgtgaga 180

tgcaacccca ccaccccatc aggcctcacc atcagagctg gttcctatgc tgatgagctc 240

gttaagaccg cgaaaacagt 260

<210> 2073

<211> 269

<212> DNA

<213> Glycine max

<400> 2073

tccgattctg ctcgaggtga acaatggcct ctgcatacagc atctcttctc aagtcttcac 60

ttgttcttga ctagtctgag tgcgtgaagg gacaaacact tcgccaacct tctgctgcat 120

cagttgtgag atgcaacccc accactcctt caggcctcac catcagagct gtttcctatg 180

ctgatgagct ctttaagacc gcgaaaacag tggcttcacc tcggaggggt attttggcca 240

tgtctgagtc cactgctccc tgttcgaag 269

<210> 2074

<211> 197

<212> DNA

<213> Glycine max

<400> 2074

aaaggttgct gtaggagata agatattgaa gtagtgctaa gtgcctaaca cctgcagtga 60

acaatggcct ctgcatacagc atctcttctc aagtcttcac ttgttcttga caagtctgag 120

tgggtgaagg gacaaacact tcgccaacct tctgctgcat cagttgtgag atgcaacccc 180

accaccccat caggcct 197

<210> 2075

<211> 165

<212> DNA

<213> Glycine max

<400> 2075

caaaggttgc tgtaggagat aagattgcag tagtgctaag tgctaacacc tgcagtgaac 60
aatggcctct gcatcagcat ctctgctcaa gtcttcactt gttcttgaca agtctgagtg 120
ggtgaaggga caaaccttc gccaaccttc tgcacagtt gtgag 165

<210> 2076
<211> 192
<212> DNA
<213> Glycine max

<400> 2076

ctacaaaggt tgctgtagga gataagatat tgaagtagtg ctaagtgcct aacacctgca 60
gtgaacaatg gcctctgcat cagcatctct tctcaagtct tcacttgttc ttgacaagtc 120
tgagtgggtg aagggaacaa cacttcgcca accttctgct gcatcagttg tgagatgcaa 180
ccccaccacc cc 192

<210> 2077
<211> 189
<212> DNA
<213> Glycine max

<220>
<221> unsure
<222> (1)..(189)
<223> unsure at all n locations

<400> 2077

caactacaaa ggttgctgta ggaganaaga tattgaagta gtgctaagtg cctaacacct 60
gcagtgaaca atngcctctg catcagcatc tcttctcaag tcttcacttg ttcttgacaa 120
gtctgagtgg gtgaagggaac aaacacttcg ccaaccttct gctgcatcag ttgtgagang 180
caacccac 189

<210> 2078
<211> 197
<212> DNA
<213> Glycine max

<400> 2078

ggttgctgta ggagataaga tattgaagta gtgctaagtg cctaacacct gcagtgaaca 60
atggcctctg catcagcatc tcttctcaag tcttcacttg ttcttgacaa gtctgagtgg 120

gtgaagggac aaacacttcg ccaaccttct gctgcatcag ttgtgagatg caaccccacc 180
 accccatcag gcctcac 197

<210> 2079
 <211> 199
 <212> DNA
 <213> Glycine max

<400> 2079

caactacaaa ggttgctgta ggagataaga tattgaagta gtgctaagtg cctaacacct 60
 gcagtgaaca atggcctctg catcagcatc tcttctcaag tcttcacttg ttcttgacaa 120
 gtctgagtgg gtgaagggac aaacacttcg ccaaccttct gctgcatcag ttgtgagatg 180
 caaccccacc accccatca 199

<210> 2080
 <211> 170
 <212> DNA
 <213> Glycine max

<220>
 <221> unsure
 <222> (1)..(170)
 <223> unsure at all n locations

<400> 2080

caactacaaa ggttgctgta ggagataaga tattgaagta ntgctaagtg cctaacacct 60
 gcagtgaaca atggcctctg catcagcatc tcttctcaag tcttcacttg ttcttgacaa 120
 gtctgagtgg gtgaagggac aaacacttcg ccaaccttct gctgcatcag 170

<210> 2081
 <211> 273
 <212> DNA
 <213> Glycine max

<220>
 <221> unsure
 <222> (1)..(273)
 <223> unsure at all n locations

<400> 2081

caactacaaa ggttgctgta ggagataaga tattgaagta gtgctaagtg cctaacacct 60

gcagtgaaca atggcctctg catcagcatc tcttctcaag tcttcacttg ttcttgacaa 120
gtctgagtgg gtgaagggaa aacacttcgc caaccttctg ctgcatcagt tgtgagatgc 180
aaccaccacca ccccatcagg cctcacaatc agagctgcct cctatgcnga tgagctcggt 240
aagaccgcga aaacagtggc ttcaccaggg agg 273

<210> 2082
<211> 272
<212> DNA
<213> Glycine max

<220>
<221> unsure
<222> (1)..(272)
<223> unsure at all n locations

<400> 2082

tacaactaca aaggttgctg taggagataa gatattgaag tagtgctaag tgnctaacac 60
ctgcagtga caatggcctc tgcacagca tctcttctca agtcttcaact tgttcttgac 120
aagtctgagt ggggtgaagga caaacacttc gccaaccttc tgctgcatca gttgtgagat 180
gcaacccac caccatca ggctcacca tcagagctgg ttctatgct gatgagctcg 240
ttaagaccgc gaaaacagtg gcttcaccag gg 272

<210> 2083
<211> 268
<212> DNA
<213> Glycine max

<400> 2083

caactacaaa ggttgctgta ggagataaga tattgaagta gtgctaagt cctaacacct 60
gcagtgaaca atggcctctg catcagcatc tcttctcaag tcttcacttg ttcttgacaa 120
gtctgagtgg gtgaagggac aaacacttcg ccaaccttct gctgcatcag ttgtgagatg 180
caacccacc acccatcag gcctcagcat cagagctggg tcctatgctg atgagctcg 240
taagaccgcg aaaacagtgg cttcacca 268

<210> 2084
<211> 153
<212> DNA

<213> Glycine max
 <400> 2084
 acaaagggttg ctgtaggaga taagattgca gtagtgctaa gtgctaacac ctgcagtga 60
 caatggcctc tgcattcagca tctctgctca agtcttcact tgttcttgac aagtctgagt 120
 ggggtgaaggg acaaaccctt cgccaacctt ctg 153

<210> 2085
 <211> 222
 <212> DNA
 <213> Glycine max
 <400> 2085
 ctcgagccga atcggctcga gcgggctcga gcaacgtaca aaggttacgc tttaggagat 60
 aagatattgt agtagtgcta agtgccatgc acttgccagt aacaatggcc tctgcatcag 120
 catctcttct caagtcttca cttgttcttg acaagtctga gtgggtgaag ggacaaacac 180
 ttgcgaacc ttctgctgca tcagttgtga gatgcaaccc ca 222

<210> 2086
 <211> 188
 <212> DNA
 <213> Glycine max
 <400> 2086
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 cctgcagtga acaatggcct ctgcatcagc atctcttctc aagtcttcac ttgttcttga 120
 caagtctgag tgggtgaagg gacaaacact tctccaacct tctgctgcat cagttgtgag 180
 atgcaacc 188

<210> 2087
 <211> 227
 <212> DNA
 <213> Glycine max
 <400> 2087
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 gcagtgaaca atggcctccg gctcagcatc tctgctcaag tcttcacttg ttcttgacaa 120

gtctgagtgg gtgaagggac aaacccttcg ccaaccttct gcatcagctg tgagatgcaa 180
 ccccaccacc ccatcaggcg tcaccatcag agctgggtcc tatgctg 227

<210> 2088
 <211> 106
 <212> DNA
 <213> Glycine max

<400> 2088

tgaacaagtt ggaggtgttg aagccatgga ctctctcatt ctcattcggg cgagcactgc 60
 aacaaagcac actcaagaca tgggggtggaa agaaggagaa tgtcgc 106

<210> 2089
 <211> 278
 <212> DNA
 <213> Glycine max

<220>
 <221> unsure
 <222> (1)..(278)
 <223> unsure at all n locations

<400> 2089

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 tcaccgaacg tgtccctgca gcatgctaca aagctttgaa tgatcaccac gtccttcttg 180
 aggggtacct attgaagcca aacatgggtca cccccgggat caaatctgct aagggttccc 240
 ctcaggttgg tgcggancac aacggttaaa gcccttca 278

<210> 2090
 <211> 338
 <212> DNA
 <213> Glycine max

<400> 2090

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 ctttttcttc tctctcaaca acttcaactt cttcctcctc gattaagtgc caatttaaag 120
 gcaaattaca agattaacct aaccgcaaaa ccgccttcaa ttggaatccc tgaaaagggt 180
 attcttcttg ccgataattc aacagggaca attggcaacc ttttgccag catcattgta 240

aaaacaattg aatccaacag gcaagctctt agggagctgc ttttcattgc tcctgatgtt 300
 cttcaatatc tcattggtgt catcctcttt aaggaaac 338

<210> 2091
 <211> 369
 <212> DNA
 <213> Glycine max

<400> 2091

gatgagctta ttgcgaatgc tgcttacatt ggcactcctg gaaagggat tcttgctgct 60
 gatgagtcaa cagggaacaat tggcaagcgt ttggccagca tcagtgtaga gaatgttgaa 120
 tccaacaggc gtgctcttag ggagctgctt ttcaccgctc ccggtgctct taaatatctc 180
 agtgggtgtca tcctctttga ggaaactctc taccagagca cagctgcagg caagcccttt 240
 gtggaagtct tgaaggaggc tgggtgtgctt cctggcatca aggttgacaa gggcacagtt 300
 gagcttgctg gcactaatgg agaaaccacc actcaggggc tagatggcct tggtcagcgt 360
 tgcgccaag 369

<210> 2092
 <211> 432
 <212> DNA
 <213> Glycine max

<400> 2092

agacggctgc gagaagacga cagaaggggg ttcactttct tccaacctct aacctacctc 60
 tttttcttct ctctcaacaa cttcaccttc ttctcctcgc atcatgtctc acttcaaggg 120
 caagtaccat gatgagctta tcgccaatgc tgcgtacatt ggcactcctg gaaagggat 180
 tcttgctgct gatgagtcaa cagggaacaat tggcaagcgt ttggccagca tcagtgtaga 240
 gaacattgaa tccaacaggc gagctcttag ggagctgctt ttcactgctc ctggtgttct 300
 tcaatatctc agtgggtgtca tcctctttga ggaaaccctc taccagagca cagctgcagg 360
 caagcccttt gtgaatgtct tgaacgaagc tgggtgtgctt cctggcatca aggttgacaa 420
 gggcacagtc ga 432

<210> 2093
 <211> 379

<212> DNA
<213> Glycine max

<400> 2093

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ttcaagggca agtaccatga tgagcttata gccaatgctg cgtacattgg cactcctgga 120
aagggtattc ttgctgctga tgagtcaaca gggacaattg gcaagcgttt ggccagcatc 180
agtgtagaga acattgaatc caacaggcga gctcttaggg agctgctttt cactgctcct 240
gggtgttcttc aatatctcag tgggtgtcatc ctctttgagg aaacctctta ccagagcaca 300
gctgcaggca agccctttgt gaatgtcttg aaagaagctg gtgtgcttcc tggcatcaag 360
ggtgacaagg gcacagtcg 379
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<210> 2094
<211> 411
<212> DNA
<213> Glycine max

<400> 2094

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acctacctct ttttcttctc tctcaacaac ttcaccttgg tctcctcga tcatgtctca 60
cttcaagggc aagtaccatg atgagcttat cgccaatgct gcgtacattg gcactcctgg 120
aaagggtatt cttgctgctg atgagtcaac agggacaatt ggcaagcggt tggccagcat 180
cagtgtagag aacattgaat ccaacaggcg agctcttagg gagctgcttt tactgctcc 240
tgggtgttctt caatatctca gtggtgtcat cctctttgaa gaaacctct accagagcac 300
agctgcaggc aagccctttg tgaatgtctt gaaagaagct ggtgtgcttc ctggcatcaa 360
ggttgacaag ggcacagtcg agcttgctgg aactaatgga gaaaccacca c 411
```

<210> 2095
<211> 446
<212> DNA
<213> Glycine max

<400> 2095

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aaaaacccta cttggtcttt ttcttcactt gttcactttc ttccaacctc taacctacct 60
ctttttcttc tctctcaaca acttcacctt cttcctcctc gatcatgtct cacttcaagg 120
gcaagtacca tgatgagctt atcgccaatg ctgcgtacat tggcactcct ggaaagggta 180
```

ttcttgctgc tgatgagtca acagggacaa ttggcaagcg tttggccagc atcagtgtag 240
 agaacattga atccaacaag ccaactctta aggagctgct tttcactgct cctggtgttc 300
 ttcaatatct cagtgggtgc atcctctttg aggaaaccct ctaccagagc acagctgcag 360
 gcaagccctt tgtgaatgtc ttgaaggaag ctggtgtgct tcctggcatc aaggttgaca 420
 agggcacagt cgagcttgct ggaact 446

<210> 2096
 <211> 418
 <212> DNA
 <213> Glycine max

<400> 2096

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 tctcacttca agggcaagta ccatgatgag cttatcgcca atgctgcgta cattggcact 120
 cctggaaagg gtattcttgc tgctgatgag tcaacaggga caattggcaa gcgtttggcc 180
 agcatcagtg tagagaacat tgaatccaac aggcgagctc ttagggagct gcttttcact 240
 gctcctgggtg ttcttcaata tctcagtggg gtcacccctt ttgaggaaac cctctaccag 300
 agcacagctg caggcaagcc ctttgggaat gtcttgaagg aaacctgtgt gctttcttgc 360
 attaaagggt gacaagggca cagtcgagct tgctggaact aatggagaaa ccaccact 418

<210> 2097
 <211> 417
 <212> DNA
 <213> Glycine max

<400> 2097

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 tgtctgggtg ccagagtgag gaggaggcat ccgtcaacct caacgccatt aaccaggcca 120
 atgggaagaa gccatggtca ctctctttct cttttggaag ggcacttcaa cagagcacc 180
 ttaaggcatg gggcggaata gaagagaatg tgaagaaggc tcaggaagcc cttttggtaa 240
 gagccaaggc taactcagag gcaactctgg gaacctacaa gggtaactca cagcttgctg 300
 atggtgcctc agagagcctc catgttttga actacagcta ctgatcaatc gaagttgggtg 360
 ttgtttgaag agactagtgc gagtaggaaa tcgtattatg ggtacaacaa ccgaatt 417

<210> 2098
 <211> 404
 <212> DNA
 <213> Glycine max

<400> 2098

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 tttcttctct ctcaacaact tcaccttctt cctcctcgat catgtctcac ttcaagggca 120
 agtaccatga tgagcttata gccaatgctg cgtacattgg cactcctgga aagggtattc 180
 ttgctgctga tgagtcaaca gggacaattg gcaagcgttt ggccagcatc agtgtagaga 240
 acattgaatc caacaggcga gctcttaggg agctgctttt cactgctcct ggtgttcttc 300
 aatatctcag tgggtgcatc ctctttgagg aaacctctta ccagagcaca gctgcaggca 360
 agccctttgt gaatgtcttg aaggaagctg gtgtgcttcc tggc 404

<210> 2099
 <211> 356
 <212> DNA
 <213> Glycine max

<400> 2099

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 agggatttct tgctgctgat gagtcaacag ggacaattgg caagcgtttg gccagcatca 180
 gtgtagagaa cattgaatcc aacaggcgag ctcttaggga gctgcttttc actgctcctg 240
 gtgttcttca atatctcagt ggtgtcatcc tctttgagga aacctctac cagagcacag 300
 ctgcaggcaa gccctttgtg aatgtcttga aggaagctgg tgtgcttctt ggcata 356

<210> 2100
 <211> 369
 <212> DNA
 <213> Glycine max

<400> 2100

ctcgagccga atcggtcga gaacctacct gtttttcttc tctctcaaca acttcacctt 60
 cttcctcttc gatcatgtct cacttcaagg gcaagtacca tgatgagctt atcgccaatg 120

ctgcgtacat tggcactcct ggaaagggta ttcttgctgc tgatgagtca acagggacaa 180
 ttggcaagcg tttggccagc atcagtgtag agaacattga atccaacagg cgagctctta 240
 aggagctgct tttcactgct cctgggtgttc ttcaatatct cagtgggtgtc atcctctttg 300
 aggaaaccct ctaccagagc acagctgcag gcaagccctt tgtgaatgtc ttgaaggaag 360
 ctgggtgtgc 369

<210> 2101
 <211> 390
 <212> DNA
 <213> Glycine max

<400> 2101

acggctgcga gaagacgaca gaaggggact tgttcacttt cttccaacct ctcaagtcca 60
 acctaccctt ttttcttctc ccaccaactt caccgtcttc ttctctgac atgtctcact 120
 tcaagggcaa gtaccatgat gagcttattg ccaatgctgc ttacattggc actcctggaa 180
 aggggtattct tgctgctgat gagtcaacag ggacaattgg caagcgtttg gccagcatca 240
 gtgtagagaa tgttgaatcc aacaggcgtg ctcttaggga gctgcttttc accgctcccg 300
 gtgctcttaa atatctcagt ggtgtcatcc tctttgagga aactctctac cagagcacag 360
 ctgcaggcaa gccctttgtg gaagtcttga 390

<210> 2102
 <211> 427
 <212> DNA
 <213> Glycine max

<220>
 <221> unsure
 <222> (1)..(427)
 <223> unsure at all n locations

<400> 2102

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 tcacttcaag ggcaagtacc atgatgagct tatcgcaa at gctgcgtaca ttggcactcc 120
 tggaaaggggt attcttgctg ctgatgagtc aacagggaca attggcaagc gtttggccag 180
 catcagtgtg nagaacattg aatccaacat gcgagctctt agggagctgc ttttcactgc 240

tcttggtgtt cttcaatatc tcagtgggtg catcctcttt gaggaacccc tctaccagag 300
cacagctgca tgcaagccct ttgtgaatgt cttgaangaa gctggtgtgc ttcctggcat 360
caatgttgac aagggcacag tcgagcttgc tggaactaat ggagaaaaca ccactcatgg 420
tctagat 427

<210> 2103
<211> 392
<212> DNA
<213> Glycine max

<400> 2103

caacctctaa cctacctctt tttcttctct ctcaacaact tcaccttctt cctcctcgat 60
catgtctcac ttcaagggca agtaccatga tgagcttata gccaatgctg cgtacattgg 120
cactcctgga aagggatttc ttgctgctga tgagtcaaca gggacaattg gcaagcgttt 180
ggccagcatc agtgtagaga acattgaatc caacaggcga gctcttaggg agctgctttt 240
cactgctcct ggtgttcttc aatatctcag tgggtgcatc ctctttgagg aaacctcta 300
ccagagcaca gctgcaagga aacccttgg tgaaggctct gaaggaagct ggtgtgcttc 360
ctgccatcaa ggttgacaag ggcacagtcg ag 392

<210> 2104
<211> 370
<212> DNA
<213> Glycine max

<400> 2104

cccacgcgtg cgcccacgcg tacgcctacc tatttttctt ctctctcaac agcttcaggt 60
tcttctcctt cgatcatgtc tcacttcaag ggcaagtacc atgatgagct tatcgccaat 120
gctgcgtaca ttggcactcc tggaaagggg attctcgctg ctgatgagtc aacagggaca 180
attggcaagc gtttggccag catcagtgtg cagaacattg aatccaacag gcgagctctt 240
agggagctgc ttttactgct tcttggtgtt cttgaatatc tcagtgggtg catcctgttt 300
gaggaacccc tttaccagag cacagctgca ggcaagccct ttgtgaatgt cttgaaagaa 360
gctggtgtgc 370

<210> 2105

<211> 405
 <212> DNA
 <213> Glycine max

<400> 2105

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ctcaagtcca acctaccct ttttcttctc ccaccaactt caccgtcttc ttctctgatc 60
atgtctcact tcaagggcaa gtaccatgat gagcttattg ccaatgctgc ttacattggc 120
actcctggaa agggatttct tgctgctgat gagtcaacag ggacaattgg caagcgtttg 180
gccagcatca gtgtagagaa tgttgaatcc aacaggcgtg ctcttaggga gctgcttttc 240
accgctcccg gtgctcttaa atatctcagt ggtgtcatcc tctttgagga aactctctac 300
caaagcacag ctgcaggcaa ccccttggtg aagtcttgaa ggaggctggg gtgcttcctg 360
gcatccaagt tgacaagggc acagtttgag cttgctggca ctaat 405
```

<210> 2106
 <211> 276
 <212> DNA
 <213> Glycine max

<400> 2106

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ctcaagtcca acctaccct ttttcttctc ccacgcaact tgaccgtctt cttcctcgat 60
catgtctcac ttcaagggca agtaccatga tgagcttatt gccaatgctg cttacattgg 120
cactcctgga aagggtatct ttgctgctga tgagtcaaca gggacaattg gcaagcgttt 180
ggccagcatc agtgtagaga atgttgaatc caacaggcgt gctcttatgg agctgctttt 240
caccgctccc ggtgctctta aatatctcag tggtgt 276
```

<210> 2107
 <211> 401
 <212> DNA
 <213> Glycine max

<220>
 <221> unsure
 <222> (1)..(401)
 <223> unsure at all n locations

<400> 2107

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aagtgtgtct gaggctgacg tcgtagctat tgcactactc tataagagct atgacgcacg 60
ctgacctaaag cccgggattc gggttcggga tgggccccaa cgagccttct gagctgtcta 120
```

tccatgagaa cgcctatggc ttggctagat acgctgtcat atgccatgag aatggcctgg 180
 ttcccattgt tgagcctgag atccttgttg atggacctca tgacattcac aagtgtgccg 240
 ncgtcaccga gcgtgtcctt gcagcatgct acaaggcttt gaatgatcac catgtccttc 300
 ttgagggtac cctattgaag ccaaacatgg tcacccctgg atcccaatct gctaaggttt 360
 tccctcatgt ggttgccgag cacactgtca gagcccttca g 401

<210> 2108
 <211> 309
 <212> DNA
 <213> Glycine max
 <400> 2108

gacccacgcg tccgcgcact cgtccgtacg gctgcgagaa gacgacagaa gggtagggct 60
 gcgagaagag gacagaatgg tacggctgcg agaagacgac agaaggatac ggctgcgaga 120
 agacgacaga agggtagggc tgcgagaaga cgacagaagg ggaccgagcg cgttcttgca 180
 gcatgctaca aggctctaaa tgatcaccat gttctgcttg agggcactct gttgaagccc 240
 aacatgggtca cccctgggtc aaagtctaag aaggtcaccc cagatgtgat tgctcaatac 300
 actggttaca 309

<210> 2109
 <211> 215
 <212> DNA
 <213> Glycine max
 <400> 2109

catggcgcgg aaaagaagag attgtgaaga aggctcagga agcccttttg gtaagagcca 60
 aggctaactc agaggcaact ctgggaacct acaagggtaa ctcacagctt gctgatgggtg 120
 cctcagagag cctccatgtt tcgaactaca gctactgata aatcgaagtt ggtggtgttt 180
 gaagagacta gtgcgagtag gaatcggtat tatgg 215

<210> 2110
 <211> 428
 <212> DNA
 <213> Glycine max
 <400> 2110

aaccgttgtc ttctcacttc gtcaaaacca accaaacccc tccccaattc tcaagccaac 60
cagggctcttc cttcaagagc aagtaccaag atgaactcat tgccaatgct gcttacattg 120
gcaccccagg gaagggtatc cttgctgctg atgagtcaac tgggtacaatt ggcaagcgat 180
tggccagcat taatgtcgag aatgttgaag caaataggcg tgctcttcgt gaactcctat 240
tcaccacacc tgggtgctttt gagtgcctca gtgggtgtgat cttgtttgaa gaaaccctat 300
acaaaaagac agcttcagga aaacccttcg tagagttgat gaaggaaaga ggagttctcc 360
ctggtatcaa ggttgacaag ggcacagtag agcttgcagg aactaatggg gagactacta 420
cttaaagg 428

<210> 2111
<211> 373
<212> DNA
<213> Glycine max

<400> 2111

tacggctgcg agaagacgac agaaggggac actccctttt taaaaccggt gtcttctcac 60
ttcgtcaaaa ccaacgaggg gcgtcccaa gtctcaagcc aaccatgtct tccttcaaga 120
gcaagtacca ggatgaactc attgccaatg ctgcttacat tggcacccca ggaagggta 180
tccttgcggc tgatgagtca actggtacaa gtcgcaagcg attggccagc attaatgtcg 240
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ttgagtgcct cagtgggtgtg atcttgtctg acgaaaccct atgccaggag acagcttcag 360
gaaaaccctt cgt 373

<210> 2112
<211> 370
<212> DNA
<213> Glycine max

<400> 2112

tacaaaggtt gctgtaggag ataagattgc agtagtgcta agtgctaaca cctgcagtga 60
acaatggcct ctgcatcagc atctctgctc aagtcttcac ttgttcttga caagtctgag 120
tgggtgaagg gacaaaccct togccaacct tctgcatcag ttgtgagatg caaccccacc 180
agcccatcag gcctcaccat cagagctggg tcctatgctg atgagctcgt taagaccgag 240

aaaacagtgg cttcaccagg gaggggtatt ttggccatgg atgagtccaa tgctacctgt 300
 gggaagcggt tggcttcaat tgggctagag aacactgaag ctaaacgcca ggcataccgt 360
 tacctcctcg 370

<210> 2113
 <211> 418
 <212> DNA
 <213> Glycine max

<400> 2113

agataagatt gcagtactgc taagtgctaa cacctgcaat gaacaatggc ctctgcatca 60
 gcatctctgc tcaagtcgct acttggtctt gacaagtctg agtgggtgaa gggacaaacc 120
 cttcgccaac cttctgcatc agttgtgaga tgcaacccca ccaccccatc aggccctcagc 180
 atcagagctg gttcctatgc tgatgagctc gttaagaccg cgaaaacagt ggcttcacca 240
 gggaggggta ttttggccat ggatgactcc aatgctacct gtgggaagcg tttggcttca 300
 attgggctat agaacactga agctaaccgc catgcatagc gtaccctcct cgtgacagtt 360
 ccaggccttg gtcagtacat ctctggtgcc attctctttg aggaaacact ctaacaat 418

<210> 2114
 <211> 267
 <212> DNA
 <213> Glycine max

<400> 2114

ctcgagccac tcgagccgct aaaaactggg atgaccctac taccaagtat gtggagaaat 60
 gcaagtatac caagagatgg ttcacacca aagtcocctaa gatataattgg aagcatggta 120
 gctgatgttc accgcacatt gctttatgga ggtatTTTTTc tgtatccggc tgataaaaag 180
 agtccaaatg gaaaacttcg tgtactctat gaagtcttcc caatgtcatt cttgatggaa 240
 caagcaggag gacaggcttt cactggc 267

<210> 2115
 <211> 271
 <212> DNA
 <213> Glycine max

<400> 2115

agaagagaag tggatatgag cttcaaacac tctaactg gatgctgaag caggagcaag 60
 ctgggggtgat tgatgcagaa ctactattg tgctgtctag catttccatg gcgtgcaatc 120
 agattgcttc tttggtgcaa agagccaaca tttccaacct cactgggggt caaggagctg 180
 tcaatgttca gggggaagac cagaaaaagc ttgatgttgt ttcaaagag gtcttctcat 240
 actgcttgag gtcaagtggg aggacaggga t 271

<210> 2116
 <211> 261
 <212> DNA
 <213> Glycine max
 <400> 2116

gaaatgccaa aaactgggat cgtcctactg ctacttacgt tgaaaaatgc aagtttcctg 60
 aagatgggtc atcaccaaag tctctaagat atattcgga gtatgggtag ctgatgttca 120
 tcgtacgttg ctttatggag gcatcttttt gtaccctgtt gacaaaaaaaa gtccaaatgg 180
 aaaacttcgt gtctgtatg aagtcttccc aatgtcattc ttgatggaac aggacaggag 240
 acagtctttc acgggcaagg a 261

<210> 2117
 <211> 257
 <212> DNA
 <213> Glycine max
 <400> 2117

atcaagtggc aggagaaggc atgtgggggg ttctggagtt aggtgcatgg ctgtggggga 60
 agcagcaacc actgggacaa agaagagaag tggatatgag cttcaaacac tctaactgctg 120
 gttgctgaag caggagcaag ctgggggtgat tgatgcagaa ctactattg tgctgtctag 180
 catttccatg gcatgcaaac agattgcttc tttggtgcaa agagctaaca tttccaacct 240
 cactgggggt caagggtg 257

<210> 2118
 <211> 271
 <212> DNA
 <213> Glycine max
 <220>

<221> unsure
 <222> (1)..(271)
 <223> unsure at all n locations

<400> 2118

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 aaattctata gccctgaccg gcacatcaac caaagtctct aagatatatt ggaagcatgg 120
 tagctgatgt tcatcgtagc ttgctttatg gaggcattct tttgtaccct gctgacaaaa 180
 aaagtccaaa tggaaaactt cgtgtcctgt annnagtctt cccaatgtca ttcttgatgg 240
 aacaggcagg aggacagtct ttcacgggca a 271

<210> 2119
 <211> 291
 <212> DNA
 <213> Glycine max

<220>
 <221> unsure
 <222> (1)..(291)
 <223> unsure at all n locations

<400> 2119

gagcaggcaa aatttatgct ttcaatgaag ggacttatcc agttgtggga tgacaagctt 60
 aagaaatata ttgatgatct caaggnccca ngtcctagcg gnaagcctta ttctgcaagg 120
 tacattggta gcttggtagg agacttccac aggnccactg ctatatggtg ncattnatgg 180
 gtaccccgang gnccaagcca aagtaacnat gggcaattca agctncanta ggangggccn 240
 ccatnanctt ccntattngc cccggctggg ggaaaagggtc cntgcccc c 291

<210> 2120
 <211> 258
 <212> DNA
 <213> Glycine max

<220>
 <221> unsure
 <222> (1)..(258)
 <223> unsure at all n locations

<400> 2120

gtgaacgtgt gcccaaccgg aagcaacctt cttgcagctg gttactgcat gtattctagc 60

tccaataatc tttgtttctca cccttgggaa tggagtgttt gtgtttacat tggacccgat 120
gtatggcgaa ttcgttttga ctcaggaaaa cctncaaata cctagagcag gcaaaattta 180
tnctttcaat gaagggaatn atcattgttg gancncacn taaggaaant ntntggacaa 240
ncnangnccc ncgcncccc 258

<210> 2121
<211> 157
<212> DNA
<213> Glycine max

<400> 2121

atggtagctg atgttcacg tacgttgctt tatggaggca tctttttgta ccctgctgac 60
aaaaaaagtc caaatggaaa acttcgtgtc ctgtatgaag tcttcccaat gtcattcttg 120
atggaacagg caggaggaca gtctttcacg ggcaagg 157

<210> 2122
<211> 262
<212> DNA
<213> Glycine max

<400> 2122

tcacagtgcc gatgctcaac gcacggactt gatgaccatc acccgcttcg tgctgaacca 60
acaatccaac caccctgagt ctcggtggcg tttctcaatc ttgctcagtc acattgttct 120
cggttgcaag ttctctgct ctgctgttaa caaggcgggt cttgctaagc ttattggact 180
tgcaggagag acaaagtgtc agggcgaaga gcaaaagaaa ctggatgtcc tttccaatga 240
tgtctttatc aaggctttgg tc 262

<210> 2123
<211> 241
<212> DNA
<213> Glycine max

<400> 2123

ggatcacagt gccgatgctc aacgcacgga cttgatgacc atcacccgct tcgtgctgaa 60
ccaacaatcc aaccaccctg agtctcgttg cgatttctca atcttgctca gtcacattgt 120
tctcggttgc aagttcctct gctctgctgt taacaaggcg ggtcttgcta agcttattgg 180

acttgcagga gagacaaatg ttcaggggaa gagcaaaaga aactggatgt cctttccaat 240

g 241

<210> 2124
<211> 261
<212> DNA
<213> Glycine max

<220>
<221> unsure
<222> (1)..(261)
<223> unsure at all n locations

<400> 2124

acatacaccc acatatttca tatgggtact tgттаatttg ggtgtggatt gttggtttgt 60

nacttgtntt gttccgttca ggtgattgtn tgattgagcc ttgaagaaat ggaccacagc 120

gctgatgcac atcgcacgga cttgatgacc ataacgcggt tcgtgctgaa cgagcaatcc 180

aagcaccocg agtcacgcgg cgatttcacc atcttgetca gtcacattgt tctcggttgc 240

aagttcgntt gttccgctgt c 261

<210> 2125
<211> 258
<212> DNA
<213> Glycine max

<220>
<221> unsure
<222> (1)..(258)
<223> unsure at all n locations

<400> 2125

ttattatact ttcttcttct tctttattat tgttgattaa tataacatac acccacatat 60

ttcatatggg tacttgtaa tttnggtgtg gattgttagt ttgttacttg tttgttccgt 120

tcaggtgatt gtttgattga gccttgaaga aatggaccac agcgctgatg cacatcgcac 180

ggacttgatg accataacgc ggttcgtgct gaacgagcaa tccaagcacc ccgagtcacg 240

cggcgatttc accatctt 258

<210> 2126
<211> 257
<212> DNA

<213> Glycine max

<400> 2126

tccaacctca ctgggggttca aggagctgtc aatgttcagg gggaagacca gaaaaagctt 60
gatgttggtt caaatgaggt tttctcaaac tgcttgaggt caagtgggag gacagggata 120
atagcatcag aggaggaaga tgtgccagtgc gcagtagaag agagttattc tggaaactac 180
attgtgggtgt ttgacctact tgatgggtca tccaatattg atgctgcagt gtcaactggg 240
tccatttttg ggatata 257

<210> 2127

<211> 253

<212> DNA

<213> Glycine max

<400> 2127

tcagggggaa gaccagaaaa agcttgatgt tgtttcaaata gaggttttct caaactgctt 60
gaggtcaagt gggaggacag ggataatagc atcagaggag gaagatgtgc cagtggcagt 120
agaagagagt tattctggaa actacattgt ggtgtttgac ccacttgatg ggtcatccaa 180
tattgatgct gcagtgtcaa ctgggtccat ttttgggata tacagcccca atgatgagtg 240
tctgctgaca ttg 253

<210> 2128

<211> 228

<212> DNA

<213> Glycine max

<400> 2128

tatcagaaaa agcttgatgt tgtttcaaata gaggttttct caaactgctt gaggtcaagt 60
gggaggacag ggataatagc atcagaggag gaagatgtgc cagtggcagt agaagagagt 120
tattctggaa actacattgt ggtgtttgac ccacttgatg ggtcatccca tattgatgct 180
gcaatgtcaa tgggggtccat ttttgggata tacagcccca tgatgagt 228

<210> 2129

<211> 284

<212> DNA

<213> Glycine max

<400> 2129

atcaacaaac caaaaaggta aactttttgc aacaaccatg gttgcaatgg cagcagcaac 60

agcatccacc cagttgattt tctcaaagcc ttgttcccct tcacgtctat gccccttcca 120

actatgtgtc tttgacacta aacaagtgct atcaagtggc aggagaaggc atgtgggggg 180

ttctggagtt aggtgcatgg ctgtggggga agcagcaacc actgggacaa agaagagaag 240

tggatatgag cttcaaacac tcactagctg gttgctgaag cagg 284

<210> 2130

<211> 276

<212> DNA

<213> Glycine max

<400> 2130

caaaaaggta aactttttgc aacaaccatg gttgcaatgg cagcagcaac agcatccacc 60

cagttgattt tctcaaagcc ttgttcccct tcacgtctat gccccttcca accatgtgtc 120

tttgacacta aacaagtgct atcaagtggc aggagaaggc atgtgggggg ttctggagtt 180

aggtgcatgg ctgtggggga agcagcaacc actgggacaa agaagagaag tggatatgag 240

cttcaaacac tcactagctg gttgctgaag caggag 276

<210> 2131

<211> 283

<212> DNA

<213> Glycine max

<400> 2131

caaaaaggta aactttttgc aacaaccatg gttgcaatgg cagcagcaac agcatccacc 60

cagttgattt tctcaaagcc ttgttcccct tcacgtctat gccccttcca actatgtgtc 120

tttgacacta aacaagtgct atcaagtgga ggagaaggca tgtgggggggt tctggagtta 180

ggtgcatggc tgtgggggaa gcagcaacca ctgggacaaa gaagagaagt ggatatgagc 240

ttcaaacact cactagctgg ttgctgaagc aggagcagct ggg 283

<210> 2132

<211> 289

<212> DNA

<213> Glycine max

<400> 2132

aatcaacaaa ccaaaaaggt aaactttttg caacaaccat ggttgcaatg gcagcagcaa 60

cagcatccac ccagttgatt ttctcaaagc cttgttcccc ttcacgtcta tgcccccttc 120

aactatgtgt ctttgcacac taaacaagtg ctatcaagtg gcaggagaag gcatgtgggg 180

ggttctggag ttaggtgcat ggctgtgggg gaagcagcaa cactgggac aaagaagaga 240

agtggatatg agcttcaaac actcactagc tggttgctga agcaggagc 289

<210> 2133

<211> 274

<212> DNA

<213> Glycine max

<220>

<221> unsure

<222> (1)..(274)

<223> unsure at all n locations

<400> 2133

actttttgca acaaccatgg ttgcaatggg cagcagcaac agcatccacc cagttgattt 60

tctcaaagcc ttgttcccc ttcacgtcta tgcccccttc aactatgtgt ctttnacact 120

aaacaagtgc tatcaagtgg caggagaagg catgtggggg gttctggagt taggtgcatg 180

gctgtggggg aagcagcaac catgggacaa agaagagaag tggatatgag cttcaaacac 240

tcactagctg gttgctgaag caggagcaag ctgg 274

<210> 2134

<211> 252

<212> DNA

<213> Glycine max

<400> 2134

aaaaggtaaa ctttttgcaa caaccatggt tgcaatggca gcagcaacag catccaccca 60

gttgattttc tcaaagcctt gttccccctt acgtctatgc cccttcgaac tatgtgtctt 120

tgacactaaa caagtgctat caagtggcag gagaaggcat gtgggggggt ctggagttag 180

gtgcatggct gtgggggaag cagcaaccac tgggacaaag aagagaagtg gatatgagct 240

tcaaacactc ac 252

<210> 2135
 <211> 275
 <212> DNA
 <213> Glycine max

<220>
 <221> unsure
 <222> (1)..(275)
 <223> unsure at all n locations

<400> 2135

```

ttttgcaaca accatggttg caatgggcag cagcaacagc atccacccag ttgattttct 60
caaagccttg ttcccccttca cgtctatgcc ccttccaact atgtgtcttt gacactaaac 120
aagtgcctatc aagtggcagg anaaggcatg tgggggggttc tggagttagg tgcattggctg 180
tgggggaagc agcaaccact gggacaaaga ananaagtgg atatgagctt caaacactca 240
ctagtgggttg ctgaanagga gcaagctggg gtgnt 275
  
```

<210> 2136
 <211> 253
 <212> DNA
 <213> Glycine max

<400> 2136

```

caaaaaggta aactttttgc aacaaccatg gttgcaatgg cagcagcaac agcatccacc 60
cagttgattt tctcaaagac cttgttcccc ttcacgtcta tgccccttcc aactatgtgt 120
ctttgacact aaacaagtgc tatcaagtgg caggagaagg catgtggggg gttctggagt 180
taggtgcatg gctgtggggg aagcagcaac cactgggaca aagaagagaa gtggatatga 240
gcttcaaaca ctc 253
  
```

<210> 2137
 <211> 254
 <212> DNA
 <213> Glycine max

<400> 2137

```

aaaaggtaaa ctttttgcaa caaccatggt tgcaatggca gcagcaacag catccacca 60
gttgattttc tcaaagcctt gttcccccttc acgtctatgc ccttccatc tatgtgtctt 120
tgacactaaa caagtgcctat caagtggcag gagaaggcat gtgggggggtt ctggagttag 180
  
```

gtgcatggct gtgggggaag cagcaaccac tgggacaaaa agagaagtgg atatgagctt 240
 caaacactca cttag 254

<210> 2138
 <211> 262
 <212> DNA
 <213> Glycine max

<400> 2138

ttctcaaagc cttgttcccc ttcacgtcta tgccccttcc aactatgtgt ctttgacact 60
 aaacaagtgc tatcaagtgg caggagaagg catgtggggg gttctggagt taggtgcatg 120
 gctgtggggg aagcagcaac cactgggaca aagaagagaa gtggatatga acttcaaaca 180
 ctactagct gggtgctaga acaggagcaa gctgggggtga ttgatgcaga actcatattg 240
 tgctgtctag catttccatg gc 262

<210> 2139
 <211> 285
 <212> DNA
 <213> Glycine max

<400> 2139

caaaaaggta aacttttgca acaaccatgg ttgcaatggc agcagcaaca gcatcctccc 60
 agttgatttt ctcaaagcct cgctcaccct cgcgtctctg tcccttccaa ctaacgggtct 120
 ttgacaccaa acaagtgtctg tcaagttcaa gtggcaggag aaggcatgtg ggggggttctg 180
 gagttaggtg catggcggtg ggagaagctg caaccactga gactaagaag agaagtggat 240
 atgagcttca aacactcact aactggttgc tgaagcagga gcaag 285

<210> 2140
 <211> 251
 <212> DNA
 <213> Glycine max

<400> 2140

atggttgcaa tggcagcagc aacagcatcc acccagttga ttttctcaaa gccttggtcc 60
 ccttcacgtc tatgcccctt ccaactatgt gtctttgaca ctaaacaagt gctatcaagt 120
 ggcaggagaa ggcattgtggg ggggttctgga gttaggtgca tggctgtggg ggaagcagca 180

accactggga caaagaagag aagtggatat gagcgtgatc actcactagc tggttgctga 240
 agcaggagca a 251

<210> 2141
 <211> 275
 <212> DNA
 <213> Glycine max

<400> 2141

caaaaaggta aacttctgca acaaccatgg ttgcaatggc agcagcaaca gcacccctccc 60
 agttgatttt ctcaaagcct cgttcaccct cgcgtctctg ccccttccac actatgtgtc 120
 tttgacacca aacaagtgtc gtcaagttca agtggcagga gaaggcatgt ggggggttct 180
 ggagttaggt gcatggcggg gggagaagct gcaaccactg agactaagaa gagaagtggg 240
 tatgagcttc aacactcact aactggttgc tgaag 275

<210> 2142
 <211> 248
 <212> DNA
 <213> Glycine max

<400> 2142

caacaaacca aaaaggtaaa ctttttgcaa caaccatggt tgcaatggca gcagcaacag 60
 catccaccca gttgattttc tcaaagcctt gttccccttc acgtctatgc cccttccaac 120
 tatgtgtctt tgacactaaa caagtgttat caagtggcag gagaaggcat gtgggggggtt 180
 ctggaataga gtgcatggct gtgggggaag cagcaaccac tgggacaaag aagagaagtg 240
 gatatgag 248

<210> 2143
 <211> 348
 <212> DNA
 <213> Glycine max

<220>
 <221> unsure
 <222> (1)..(348)
 <223> unsure at all n locations

<400> 2143

aaatcttttt gctcttagtg ccttagtaca caatccatgt aaccaccact agtgctaaaa 60

tcacaaacca aaaaggtaaa cttctgcaac aaccatgggt gcaatggcag cagcaacagc 120
atcctcccag ttgattttct caaagcctcg ttcaccctcg cgtctctgcn ccttccaact 180
atgtgtcttt gacaccaaac aagtgtgtgc aagttcaagt ggcaggagaa ggcatgtggg 240
gggttctgga gttaggtgca tggcggtggg agaagctgca accactgaga ctaagaagag 300
aagtggatat gagcttcaaa cactcactaa ctggttctga agcaggac 348

<210> 2144
<211> 283
<212> DNA
<213> Glycine max

<400> 2144

caaaaaggta aacttctgca acaaccatgg ttgccaatgg cagcagcaac agcatcctcc 60
cagttgattt tctcaaagcc tcgttcaccc tcgcgtctct gcccttcca actatgtgtc 120
tttgacacca aacaagtgtc gtcaagttca agtggcagga gaaggcatgt ggggggttct 180
ggagttaggt gcatggcggt gggagaagct gcaaccactg agactaagaa gagaagtgga 240
tatgagcttc aaacactcac taactggttg ctgaagcagg agc 283

<210> 2145
<211> 246
<212> DNA
<213> Glycine max

<400> 2145

aaacttctgc aacaaccatg gttgcaatgg cagcagcaac agcatcctcc cagttgattt 60
tctcaaagcc tcgttcaccc tcgcgtctct gacccttcca actatgtgtc tttgacacca 120
aacaagtgtc gtcaagttca agtggcagga gaaggcatgt ggggggttct ggagttaggt 180
gcatggcggt gggagaagct gcaaccactg agactaagag agaagtggat atgagcttca 240
aacact 246

<210> 2146
<211> 257
<212> DNA
<213> Glycine max

<400> 2146

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caaaaaggta aacttctgca acaaccatgg ttgcaatggc agcagcaaca gcatcctccc 60
agttgatttt ctcaaagcct cgttcaccct cgcgtctctg ccccttccaa ctatgtgtct 120
ttgacaccaa acaagtgtctg tcaagttcaa gtggcaggag aaggcatgtg gggggttctg 180
gagttagggtg catggcggtg ggagaagctg caaccactga gactaagaag agaagtggat 240
atgagcttca aacactc 257

```

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<210>      2147
<211>      278
<212>      DNA
<213>      Glycine max

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<220>
<221>      unsure
<222>      (1)..(278)
<223>      unsure at all n locations

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<400>      2147

```

```

caaaaaggta aacttctgca acaaccatgg ttgcaatggc agcagcaaca gcatcctccc 60
agttgatttt ctcaaagcct cgttcaccct cgcgtctctg cnccttccaa ctatntgtct 120
ttgacaccaa acaagtgtctg tcagttcaag tggcaggaga aggctgtgg ggggntctgg 180
agttnggtgc atggcggtgg gagaagctgc aaccatgaga ctangnagag aagtggatat 240
gagcttcaaa catcataact gggtgctgaa gcaggagc 278

```

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<210>      2148
<211>      246
<212>      DNA
<213>      Glycine max

```

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<400>      2148

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```

aaacttctgc aacaactatg gttgcaatgg cagcagcaag agcatcctcc cagttgattt 60
tctcaaagcc tcgttcaccc tcgcgtctct gcccttcca actatgtgtc tttgacacca 120
aacaagtgtc gtcaagttca agtggcagga gaaggcatgt ggggggttct ggagttagg 180
gcatggcggt gggagaagct gcaagcactg agactaagaa gaaagtggat atgagcttca 240
aacact 246

```

```

<210>      2149

```

<211> 250
 <212> DNA
 <213> Glycine max

 <400> 2149

 aaacttctgc aacaaccatg gttgcaatgg cagcagcaac agcatcctcc cagttgattt 60
 tctcaaagcc tcgttcaccc tcgctctctt gcccttcca gctatgtgtc tttgacacca 120
 aacaagtgtc gtcaagttca agtggcagga gaaggcatgt ggggggttct ggagttaggt 180
 gcatggcggg gggagaagct gcaacacctg agactaagaa gagaagtgga tatgagcttc 240
 aaacactcac 250

<210> 2150
 <211> 269
 <212> DNA
 <213> Glycine max

 <220>
 <221> unsure
 <222> (1)..(269)
 <223> unsure at all n locations

 <400> 2150

 caaaaaggta aacttcngca acaaccatgg ttncaatgg cagcagcaac agnatcctcc 60
 cagtngattt tctcaaagcc tcgttgcanc ctgcgtctc tgccccttcc aactatgngt 120
 ctttgncacc aaacaagtgc tgtcaagttc aagtggcagg agaaggcatg tgggggggttc 180
 tggagttagg tgcattggcg tgggagaagc tgcaaccact gagactaaga agagaagtgg 240
 atatgagctt caaacactca ntaactggt 269

<210> 2151
 <211> 222
 <212> DNA
 <213> Glycine max

 <400> 2151

 aaaatcaaca aacccaaaag gtaaactttt tgcaacaacc atggttgcaa tggcagcagc 60
 aacagcatcc acccagttga ttttctcaaa gccttggtcc ccttcacgtc tatgcccctt 120
 ccaactatgt gtctttgaca ctaaacaagc gctatcaagt ggcaggagaa ggcattgtggg 180
 gggttctgga gttaggtgca tggctgtggg ggaagcagca ac 222

<210> 2152
 <211> 192
 <212> DNA
 <213> Glycine max

 <400> 2152

 gtaaactttt tgcaacaacc atggttgcaa tggcagcagc aacagcatcc acccagttga 60
 ttttctcaaa gccttggtcc ccttcacgtc tatgccccat ccaactatgt gtctttgaca 120
 ctaaacaagt gctatcaagt ggcaggagaa ggcattgtggg gggttctgga gttagggtgca 180
 tggctgtggg gg 192

<210> 2153
 <211> 247
 <212> DNA
 <213> Glycine max

 <400> 2153

 caaccaaaaa ggtaaacttc tgcaacaacc atggttgcaa tggcagcagc aacagcatcc 60
 tcccagttga ttttctcaaa gcctcggttc ccctcgcgtc tctgccccctt ccaactatgt 120
 atcttgacac caaacaagtg ctgtcaagtt caagtggcag gagaaggcat gtgggggggtt 180
 ctggagttag gtgcatggcg gtgggagaag ctgcaaccac tgagactaag aagagaagtg 240
 gatatga 247

<210> 2154
 <211> 255
 <212> DNA
 <213> Glycine max

 <220>
 <221> unsure
 <222> (1)..(255)
 <223> unsure at all n locations

 <400> 2154

 acacaatcca tgtaancacc actagcacca taccacactg ccaaaatcan caaaccaaaa 60
 aggtaaactt tttgcaacaa ccatgggttc aatggcagca gcaacagcat ccacccagtt 120
 gattttctca aagccttggt ccccttcacg tctatgcccc ttccaactat gngnctgnac 180

taaacaagtg ntatcaagtg gcaggagaag gnatgtgggg ggttctggag tnaggtgcat 240
ggctgtgggg gaagc 255

<210> 2155
<211> 225
<212> DNA
<213> Glycine max
<400> 2155

tacggctgcg agaagacgac agaaggggac cactagtgtct aaaatcatca accaaaaagg 60
taaacttctg caacaaccat gggtgcaatg gcagcagcaa cagcatcctc ccagttgatt 120
ttctcaaagc ctcggttcacc ctgcgtctc tggcccttcc aactatgtgt ctttgacacc 180
aaacaagtgc tgtcaagttc aagtggcagg agaaggcatg tgggg 225

<210> 2156
<211> 218
<212> DNA
<213> Glycine max
<400> 2156

ctttgctctc agtgccttag aacacaatcc atgtaaccac cacaagcacc ataccacact 60
gccaaaatca acaaaccaaa aaggtaaact ttttgcaaca accatgggtg caatggcagc 120
agcaacagca tccaccagc tgattttctc aaagccttgt tccccttcac gtctatgccc 180
cttccaacta tgtgtctttg acactaaaca agtgctat 218

<210> 2157
<211> 135
<212> DNA
<213> Glycine max
<400> 2157

caaaaaggta aactttttgc aacaaccatg gttgcaatgg cagcagcaac agcatccacc 60
cagttgattt tctcaaagcc ttgttccccct tcacgtctat gcccttcca actatgtgtc 120
tttgacacta aacaa 135

<210> 2158
<211> 92
<212> DNA

<213> Glycine max
 <400> 2158
 gtaaacttct gcaacaacca tggttgcat ggcagcagca acagcatcct cccagttgat 60
 tttctcaaag cctcgttcac cctcgctct ct 92

<210> 2159
 <211> 236
 <212> DNA
 <213> Glycine max
 <400> 2159
 tgagccttct aagcgcggaa agtactgtgt ttgctttgac ccattggatg gctcgtccaa 60
 cattgattgt ggggtttcca ttggcacaat ttttgggggt tatgcgttga aagatgtcca 120
 tgaaccaacc atagaagatg tcctgcttcc tgggaagaac atggtggcag ctggttactg 180
 tatgtatgga agctcttgca cgcttgtgtt aagcactgga gcaggtgtta atggtt 236

<210> 2160
 <211> 280
 <212> DNA
 <213> Glycine max
 <400> 2160
 gcaacagcca ctaagatggt ctttgagtct tggcacgcca cgtgtcagaa ctgccaacag 60
 atagcaccat ctctttctcc ttctccctaa acctcgaact cagcaccccc atccactggt 120
 gattgtttga ttgagccttg aagaaatgga ccacagcgt gatgcacatc gcacggactt 180
 gatgaccata acgcggttcg tgctgaacga gcaatccaag caccctgagt cacgcggcga 240
 tttcaccatc ttgctcagtc acattgttct cggttgcaag 280

<210> 2161
 <211> 363
 <212> DNA
 <213> Glycine max
 <220>
 <221> unsure
 <222> (1)..(363)
 <223> unsure at all n locations
 <400> 2161

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caaaactttc atatccccga aattctctct tttccactg ttccctagga aatatttatt 60
ctcatcttca tcctctacac aacacctaag atcggacaag agggaactca taatttataa 120
aaagaacatt gagaaagaga gaagggaaga agaatggacc accaagctga cactaacaga 180
actgatttga tgacatcaca cgctttgttc tgaatgaaca gtcaaagtat cccgantcac 240
gtggcgattt caccatcctt ctcatgcaca tggttctggg ctgnaatccg tttgttctgc 300
tgtnaanagg ngggttggcg aaaccaag attgcggaga nncattttca ggggggacaa 360
aaa 363

```

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<210> 2162
<211> 393
<212> DNA
<213> Glycine max

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<400> 2162

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ccccactcca tcatttatta tactttcttc ttcttcttta ttattgttga ttaatataac 60
atacaccacac atatttcata tgggtacttg ttaatttggg tgtggattgt tggtttgtaa 120
cttgttttgt tccgttcagg tgattgtttg attgagcctt gaagaaatgg accacagcgc 180
tgatgcacat cgcacggact tgatgaccat aacgcgggtc gtgctgaacg agcaatccaa 240
gcaccccgag tcacgcggcg atttcacat cttgctcagt cacattgttc tcggttgcaa 300
gttcgtttgt tccgctgtta acaaaggctg gccttgctaa acttattgga ctgctggag 360
aaaccaatgt tcaagtgaa gaacagaata aac 393

```

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<210> 2163
<211> 123
<212> DNA
<213> Glycine max

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<400> 2163

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cttcaatgtt ggtaagtatc gtcgccttaa gcatggttct agtcagtctg ctgatttctt 60
tcgagctgac aatcctgaag gtgtggaggc acgtaatgag gtagcaaaga tggcatttga 120
aga 123

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<210> 2164
<211> 243

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<212> DNA
 <213> Glycine max
 <400> 2164
 gatttctttc gagctgacaa tcctgaaggt gtggaggcac gtaacgaggt agcaaagatg 60
 gcatttgaag atatgatatc ttggatgcaa gaaggtggcc aggttgggat atttgatgcc 120
 acaaacagta gcaagcagcg aagaaacatg ctgatgaaat tggctgaagg tagatgcaag 180
 atcatttttc tggaaacaat atgcaatgat gtagacataa ttgagaggaa tattcgcttt 240
 aaa 243

<210> 2165
 <211> 260
 <212> DNA
 <213> Glycine max
 <400> 2165
 cttgagcatt atgttgtccc aactcccgca actgctgcaa attcagcaca tgtatatgcc 60
 gctaacatga cagagaatcc aaggtcacta atttgtgggt ctggcagcag ttcatatccc 120
 atcaaggaga tgcaggttat tgtgcctgat ccatctaaga tttttcaaag ttctggaatg 180
 gttgaatcca agtcagttgg aacattttca cctctgcaaa agcaagagag tcagagggga 240
 ctttttgttg atagaggtgt 260

<210> 2166
 <211> 390
 <212> DNA
 <213> Glycine max
 <400> 2166
 cccacgcgtc cgtacggctg cgagaagacg acagaagggg ggatgacgta tgaagaaatc 60
 aagaagaaca tgccagagga gtatgaatcc cgcaataagg acaaacttag gtatcgttat 120
 cctcgtggag agtcttactt agatgttatt caaaggttag aacctgtaat tattgaactt 180
 gagcgacaac gagcacctgt tgttgtgata tctcaccagg cagttttgag ggcattatat 240
 gcttatttta ctgacaggcc tttgaaagaa attgcagata ttgagatgcc cctccatagc 300
 ataatagaaa tacaattggg agttacaggt gtcgaagaga aaagatacaa actaatggac 360
 tgaaatgaat aactgaagga gagaagaaac 390

<210> 2167
 <211> 122
 <212> DNA
 <213> Glycine max

<220>
 <221> unsure
 <222> (1)..(122)
 <223> unsure at all n locations

<400> 2167

ggtgagtaac catgatgagc taatgtccaa ctattttgca cagtctgatg cccttgcata 60
 tnnnaagaca gcagagcagc tgcnaaaggn caatgtttcc ccgcacctta ttccacacaa 120
 ga 122

<210> 2168
 <211> 234
 <212> DNA
 <213> Glycine max

<400> 2168

tgataatcct ccactcaaga taacatacat ggacaacacg gatcctgctg gaattgatca 60
 tcagattgca caacttgggc ctgagctagc ttcaaacactt gtgattgtga tatcaaagag 120
 tggaggtact cctgagacca gaaatggttt attggaagtg cagaaggcct ttcgtgaagc 180
 aggcttggat tttcctaaac aggggtgttg tataacacaa gaaaattctt tggt 234

<210> 2169
 <211> 205
 <212> DNA
 <213> Glycine max

<400> 2169

ttcctatggt tgattgggca ggaggtagaa cgtcagagat gtctgcagtt ggcttgcttc 60
 cagcagccct tcagggtatt gatattagag aaatgcttgc cggatgcata ttgatggatg 120
 aggctaatag gagtactgtg ttaaggaata accctgcagc tctgctggct ttatgttggg 180
 attgggctac agatgggtga ggatc 205

<210> 2170

<211> 223
 <212> DNA
 <213> Glycine max

 <400> 2170

 tgcagggcgt tgctataact caagaaaatt ctttgctgga taactactgca agaattgagg 60
 gttgggttagc tagatttcca atgtttgact ggggtgggagg tagaacatca gagatgtctg 120
 cagtgggcct gcttccagca gcccttcaga gcattgacat aagagaaatg cttgctgggtg 180
 cagcattaat ggatgaggcg aataggagta ctgtgataag gaa 223

<210> 2171
 <211> 218
 <212> DNA
 <213> Glycine max

 <400> 2171

 tgcagggcgt tgctataact caagaaaatt ctttgctgga taagactgca agaattgacg 60
 gttgggttagc tagatttcca atgtttgact ggggtgggagg tagaacatca gagatgtctg 120
 cagtgggcct gcttccagca gcccttcaga gcattgacat aagagaaatg cttgctgggtg 180
 cagcattaat ggatgaggcg aataggagta ctgtgata 218

<210> 2172
 <211> 273
 <212> DNA
 <213> Glycine max

 <400> 2172

 gtgctacgtg atagacctcc tggatcatgat tgggaacttg aacctggtgt cacatgcggt 60
 gactacttgt ttggtatgct acaggggaaca agatcagctc tgtatgccaa taaccgagag 120
 tccatcacag ttactgtaca agaagtgaca cctagaacag ttggtgctct tattgcactc 180
 tatgaacgag cagtaggaat ttatgcctcc cttgtcaaca taaatgctta tcatcaacca 240
 ggtgtggaag ctggtaaaaa agcagcaggt gaa 273

<210> 2173
 <211> 257
 <212> DNA
 <213> Glycine max

<400> 2173

aacaattgag ggaaggtgta cacaatttct ttgtaacatt cattgaggtg ctacgtgata 60

gacctcctgg tcatgattgc gaacttgaac ctggtgtcac atgcggtgac tacttgtttg 120

gtatgctaca gggaacaaga tcagctctgt atgccaataa ccgagagtcc atcacagtta 180

ctgtacaaga agtgacacct agaactgttg gtgctcttat tgcactctat gaacgagcag 240

taggaattta tgcctcc 257

<210> 2174

<211> 248

<212> DNA

<213> Glycine max

<400> 2174

tacggctgcg agaagacgac agaaggggat tgggaacttg aacctggtgt cacatgtggt 60

gactacttgt ttggtatgct acaggaaca aggtcggctt tgtatgcaa taaccgagag 120

tccatcacag ttactgtaca agaagggaca ccaagaacag ttggtgctct tattgggctc 180

tatgaacgag cagtaggaat ttatgcctcc cttgtcaaca taaatgctta tccttttcct 240

cgtgtgga 248

<210> 2175

<211> 236

<212> DNA

<213> Glycine max

<400> 2175

atcctgcagc tttgctggct ttatgttggt attgggctac agatggtgta ggatcaaaag 60

atatggttat cttccatat aaggacagct ttctattatt tagtagatac ttgcaacagt 120

tggtcatgga atctctagga aaggagtttg acttgaatgg taatcgggtt aatcaaggaa 180

ttagtgtcta tggaataaaa ggaagcacag atcagcatgc ctacattcac caactg 236

<210> 2176

<211> 270

<212> DNA

<213> Glycine max

<400> 2176

cagcatgcct acattcagca actgagggaa ggtgtgcaca atttttttgt gacattcatt 60
gaggtgctac gcgatagacc acctgggtcat gattgggagc ttgaaccagg tgtcacatgt 120
ggtgactacc tgtttggtat gctacagga acaagggtcag ccctgtatgc caataaccgt 180
gaatccatca ctgtcacagt gcaagaagtg acaccagat cagttgggtgc cctttagacc 240
ctttatgaac gggccgttgg aatatatgct 270

<210> 2177
<211> 259
<212> DNA
<213> Glycine max

<400> 2177

ggagtttgac ttgaatggta atcgggttaa tcaaggaatt agtgtctatg gaaataaagg 60
aagcacagat cagcatgcct acattcaaca actgagggaa ggtgtgcaca atttttttgt 120
gacattcatt gaggtgctac gcgatagacc acctgggtcat gattgggagc ttgaaccagg 180
tgtcacatgt ggtgactacc tgtttggtat gctacagga acaagggtcag ccctgtatgc 240
caataaccgt gaatccatc 259

<210> 2178
<211> 227
<212> DNA
<213> Glycine max

<400> 2178

atagaagtac tgtgttaagg aataaccctg cagctctgct ggctttatgt tggatttggg 60
ctacagatgg tgtaggatcc aaggatatgg ttattcttcc gtacaaggac agcctgttat 120
tattcagtag atacttgcag cagctgggtca tggaatctct aggcaaggag tttgacttgg 180
atggtaatcg ggttaatcaa ggaattagtg tctatggaaa caaagga 227

<210> 2179
<211> 263
<212> DNA
<213> Glycine max

<220>
<221> unsure
<222> (1)..(263)
<223> unsure at all n locations

<400> 2179

ttcagggcat tgatattaga gaaatgcttg cnggtgcatc attgatggat gaggctaata 60

gaagtactgt gttaaggaat aaccctgcag cntngctggc ttangnaagg tattgggcta 120

cagatgggtgt aggaccaagg anatgggttat tcttccgtac aaggacagcc tngtattatt 180

cagtagatac ntgcagcagc tggtcatgga atctctaggc aaggagtttg acttggatgg 240

taatcggggtt aatcaaggaa tag 263

<210> 2180

<211> 263

<212> DNA

<213> Glycine max

<400> 2180

gcgcgatcgc gaatcccgat gagagtcgca tgggtgggaca ctattggctg agggacccta 60

agcgtgcgcc caactcgttc cttaaaacgc agattgagaa cactctcgac gctgtttgca 120

agttecgctaa cgacgtcggt agtggtgaaga ttaagcctcc ttcgtctccg gagggtcgat 180

ttactcaaatt attgtctgtg ggaattggag gttctgctct tggaccacag tttgttgcag 240

aagcattggc acctgataat cct 263

<210> 2181

<211> 398

<212> DNA

<213> Glycine max

<220>

<221> unsure

<222> (1)..(398)

<223> unsure at all n locations

<400> 2181

gaataaatgg ttaaggcaaa aaggattacg gtgataagga ataatcctgc acctttgctg 60

gctttatggt ggtattgggc tacagatggt gtaggatcaa aagatatggt tacccttcca 120

tataaggaca gcttggtatt atttagtaga tacttgcaac agttggatcat ggaatctcta 180

agcaaggagt ttgacttgaa tggtaatcgg gttaatcaag gaattagtgt ctatggaaat 240

aaaggaagca cagatcagca tgcctacatt cagcaactga nggaagggtg gcacaatttt 300

tttgtgacat tcattgangt gctacgcat agaccacctg gtcattgattg ggagcttgaa 360
 caagtgtcac atgtggtgac tacctgtttg gtatgcta 398

<210> 2182
 <211> 362
 <212> DNA
 <213> Glycine max

<400> 2182

gttggagaag ggcgcgatcg cgaatcccga tgagagtcgc atggtgggac actattggct 60
 gagggaccct aagcgtgcmc ccaactcgtt ccttaaaacg cagattgaga acactctcga 120
 cgctgtttgc aagttcgtc acgacgtcgt tagtggttaag attaagcctc cttcgtctcc 180
 ggagggctga tttactcaaa tattgtctgt gggaattgga agttctgctc ttggaccaca 240
 gtttgttgca gaagcattgg cacctgataa tcctccactc aagataagat ttgtggacaa 300
 cacggatcct gctggaattg atcatcagat tgcacaactt gggcctgagc tagcttcaac 360
 ac 362

<210> 2183
 <211> 243
 <212> DNA
 <213> Glycine max

<220>
 <221> unsure
 <222> (1)..(243)
 <223> unsure at all n locations

<400> 2183

ctgagttccg ccattacact gacatcaatg agcttcctcc acatcggtt gctgaaatca 60
 gaagattctt tgaggactac aagaagaatg agaacaaaat agttgatgtt gaagactttc 120
 taccggctga agctgccatt gatgccatca attactccat ggacttgtat gctgcttaca 180
 tagttgagag ctaaggnact aacttctcta nagacnntgt ancncnntnn gngngctctc 240
 caa 243

<210> 2184
 <211> 262
 <212> DNA
 <213> Glycine max

<400> 2184

ctcctcttaa tgagaggatt atttcatcca tgaccagaag atctgttgct gcacacccgt 60

ggcacgacct tgagataggg cctgggtgctc caacgatctt caattgtgtg attgagattg 120

ggaaagggag caaggtgaaa tatgaactgg acaaaaaatc gggctttatc aagatcgacc 180

gtgtccatta ctcacagtt gtgtatcctc acaattatgg gtttatccca cgtactattt 240

gtgaggacag tgatccctg ga 262

<210> 2185

<211> 254

<212> DNA

<213> Glycine max

<400> 2185

ggagccagtt cttccaggtt gctttctacg ggccaaagct attggactca tgcctatgat 60

tgatcagggt gagaaagatg acaagataat tgctgtctgt gctgatgac ctgagtatag 120

gcattacaat gatatcaagg accttcctcc tcaccgttta gctgaaatc gtcgtttctt 180

tgaagattac aagaagaatg agaacaagga agttgcagtg aacgactttc ttcctgcttc 240

agctgcctat gaag 254

<210> 2186

<211> 246

<212> DNA

<213> Glycine max

<400> 2186

gcattattgt ctgtttgatt actactctct ttgcaactga tttctttgag atcaaggctg 60

tcaaggaaat tgaaccagct ttgaaaaagc agcttatcat ctctacagta ctcatgactg 120

ttggaattgc aattattagt tggattgctc tgccaacatc cttcacaatt ttcaactttg 180

gcgctcagaa ggaagtaaag agctggcagc tgttcctctg tgtgggtgtt ggtctatggg 240

ctggac 246

<210> 2187

<211> 259

<212> DNA

<213> Glycine max

<400> 2187

caacactggc ggtgcttggg ataatgctaa gaagtacata gaggctggtg cgtctgagca 60

tgcaaggacc ctgggccagc aaggatctga accacataag gcagctgtta ttggagatac 120

cattggagac cctcttaaag atacttcagg tccttcactc aacatcctca tcaagctcat 180

ggccgttgag tcgctcgtct tcgcaccatt tttcgccact cacggtggcc tgcttttcaa 240

gatcttttga tttgagggt 259

<210> 2188

<211> 188

<212> DNA

<213> Glycine max

<400> 2188

gcctctgttc cgccaagcgc agataagacc caccgttcag gccaccggct gagttaggtt 60

tccggcgagg atcgggtgctg ctctgctgtc ggagcttgcg acggagatag tcgtgccagt 120

gtgcgccgtc atcgggatcg ggtcctggct ggtgcagtgg ttctcgtgt cgcgcgtaa 180

gctcactc 188

<210> 2189

<211> 242

<212> DNA

<213> Glycine max

<400> 2189

ctgctggcaa cactactgct gccataggca agggatttgc tattgggtct gccgctctgg 60

tgtctttggc cctatttggg gcatttgtga gcagggtg aatttcaact gttgatgtct 120

tgacacccaa ggtctttatt ggactcatag ttgggtgccat gcttccttac tgggttttccg 180

ctatgaccat gaagagtgtt ggaagtgcag ctttgaagat gggtgaggag gttcgtaggc 240

ag 242

<210> 2190

<211> 313

<212> DNA

<213> Glycine max

<220>


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<221>      unsure
<222>      (1)..(313)
<223>      unsure at all n locations
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gctctgtgng	aaggettcag	tactaaganc	nagncctgca	catatgatna	gangcgagct	60
atanaagcca	gcccntgncg	acttgcnttg	nttagccctg	tcatctntcn	tggcntgggtg	120
ctatnacttc	ngtcctatcn	ngnntcctta	ggctannaat	tgncagcctg	tgccaatgcn	180
aggacnaacc	ttagcagcca	ganagggagt	tggataggct	ttgnatactg	catttaggnc	240
tgggtgcagtg	atggggtttcc	nncntggngg	aatggtctt	ntggngnnct	acattnacca	300
tcaatctctt	cag					313

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<220>
<221>      unsure
<222>      (1)..(119)
<223>      unsure at all n locations
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cccatggcgt gaccttgaga tcggacctgg ngctccaatt ntentcaatt gtgtgattna 60
aattgggnna gggancnagg ngaaatntgn actggacaca aagtcggggc tnatcaang 119

<210> 2193
 <211> 263
 <212> DNA
 <213> Glycine max

 <400> 2193

 gcgcaaccca gctgttattg cagacaacgt aggagcta at gttggagata tcgctgggat 60
 gggttcagac ttatttgggt cttatgcaga atcatcatgt gcagctttat ttgtagcatc 120
 catatcatcg tttggaacaa atcatgatca cacagccatg tcatatcctc tcatcataag 180
 ctccatggga attgtggttt gcttgattac gactcttttt gcaactgatc tgtttgaact 240
 taaaaacgtg agccaaatag aac 263

<210> 2194
 <211> 168
 <212> DNA
 <213> Glycine max

 <400> 2194

 cggctcgagg ggagaggaag caaggtgaga tatttacttg acaaaagaac tggaaatatt 60
 atggttgatc gtatactaca ctcatcagta gtttatcctc acaactatgg gaatattcca 120
 cgtactatth gtgaggacag tgatcccatg gatgtcttgg gtattatg 168

<210> 2195
 <211> 194
 <212> DNA
 <213> Glycine max

 <400> 2195

 cgcgttcact gcaatgttat atcccctact catcagttct atgggcatta ttgtctgttt 60
 gattactact ctttttgcaa ctgatttctt tgcatcaag gctgtcaagg aaattgaacc 120
 agctctaaaa aagcagctta tcatctctac agtactcatg actgttgga ttgccattat 180
 tagttggatt gctc 194

<210> 2196
 <211> 190
 <212> DNA
 <213> Glycine max

 <400> 2196

gtgatccccct ggatgtcttg attattatgc aggagccggt tcttccaggt tgctttcttc 60
 gggccaaagc aattggtctc atgcccatga ttgatcaggg ggagaaagat gataaaatta 120
 ttgctgtctg tgctgatgat cctgagtata gacattacaa tgatatcaaa gagcttcctc 180
 cacatcgttt 190

<210> 2197
 <211> 265
 <212> DNA
 <213> Glycine max

<220>
 <221> unsure
 <222> (1)..(265)
 <223> unsure at all n locations

<400> 2197

agtgttttgc ttttgcgtgt gtacaagatg agtgatgaga atggcgaaga acctcgagaa 60
 aaccgtccgg ttccacgctt gaatgaaagg attctttcat ctctgtctag gagatcagtt 120
 gctgctcacc cttgcatgat cttgaaattg gacctggagc gcctatgatt ttcaattgtg 180
 ttgtggagat cactaaggga agcaagggtca aatacgaact tgacaaaaag acnggattaa 240
 ttaaggttga tcggattctg tactc 265

<210> 2198
 <211> 260
 <212> DNA
 <213> Glycine max

<400> 2198

tttcaaagta tttgctttta ttttttggtg aaaaagtgtt ttgcttttgc tgttgtacaa 60
 gatgagtgat gagaatggcg aagaacctcg agaaaaccgt ccggttcac gcttgaatga 120
 aaggattctt tcattctctg ctaggagatc agttgctgct cacccttggc atgatcttga 180
 aattggacct ggagcgcctt gattttcaat tgtgttgtgg agatcactaa gggaagcaag 240
 gtcaaatacg aacttgacaa 260

<210> 2199
 <211> 236
 <212> DNA

<213> Glycine max
 <400> 2199
 acacgttctc tgtgactgcc tctgttccgc caagcgcagc attgccccac cgttcaggcc 60
 accggctgag ttaggtttcc ggcgaggatg ggtgctgctc tgctgtcgga gcttgcgacg 120
 gagatagtcg tgccagtgtg cgccgtcatc gggatcgtgt tctcgttggt gcagtggttc 180
 ctctgtgctgc gcgtcaagct cactccccgac cgcaacggaa cgacgtcgtc gccgcg 236

<210> 2200
 <211> 272
 <212> DNA
 <213> Glycine max
 <400> 2200
 atgaaattga accagctcta aaaaagcagc ttatcatctc tacagtactc atgactgttg 60
 gaattgcaat tattagttgg attgctctgc caacatcctt cacaattttc aactttgggtg 120
 ctccagaagga agtaaagagc tggcactgtt cctctgtgtg ggtgttggtc tatgggctgg 180
 acttattatt gcgtttgtta ctgagtacta tacaagcaat gcttacagtc ctgtacaaga 240
 tgttgctgat tcctgccgga ctggagctgc aa 272

<210> 2201
 <211> 251
 <212> DNA
 <213> Glycine max
 <400> 2201
 attgaaccag ctctaaaaaa gcagcttata atctctacag tactcatgac tgttggaatt 60
 gcaattatta gttggattgc tctgccaaca tccttcacaa ttttcaactt tgggtgctcag 120
 aaggaagtaa agagctggca gctgttcctc tgtgtgggtg ttggtctatg ggctggactt 180
 attattgggt ttgttactga gtactatata agcaatgctt acagtctgtg acaagatggt 240
 gctgattcct g 251

<210> 2202
 <211> 244
 <212> DNA
 <213> Glycine max

<400> 2202

cggaaggctt cagtactaag agccagccct gcacatatga taagagcaag ctatgcaagc 60

cagcccttgc gactgcattg tttagcactg tatctttctt gcttggtgct ataacttcag 120

tcctatctgg tttccttggg atgaaaattg caacctatgc caatgcaagg acaaccttgg 180

aagccagaaa gggagttgga aaggctttca ttactgcatt taggtctggt gcagtgatgg 240

gttt 244

<210> 2203

<211> 268

<212> DNA

<213> Glycine max

<220>

<221> unsure

<222> (1)..(268)

<223> unsure at all n locations

<400> 2203

gagccagccc tgcacatatg ataagagcna gctatgcaag ccagcccttg cgactgcatt 60

gttttagcact gtatctttct tgcttggtgc tataacttca gtctatctg gtttccttgg 120

gatgaaaatt gcaacctatg ccaatgcaag gacaaccttg gaagccagaa agggagttgg 180

aaaggcttca ttactgattt aggtctggtg cagtgcaggg tttccttctt gcagcaaattg 240

gtcttttgggt gccctacatt accatcaa 268

<210> 2204

<211> 232

<212> DNA

<213> Glycine max

<220>

<221> unsure

<222> (1)..(232)

<223> unsure at all n locations

<400> 2204

tcacccttgg cagcacttag agattgggcc aggagctcca gcagttttca actgtgtggt 60

tgaaattggc aaaggaagta aggttaagta tgagctggac aagacaagtg gacttataaa 120

ggttgatcgt attctttact catcagtagt ctaccacac aactaacgat attnnccaan 180

aaccatttgt gaagacagtg atcctatgga cgtgctgggt ctaatgcagg aa 232

<210> 2205
 <211> 266
 <212> DNA
 <213> Glycine max

<400> 2205

ctcaccttga agattcaagt gcatggaatt cgagtatacc tcaccctaag ctcaatgaaa 60
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 ttggggccagg agctccagct gttttcaact gtgtggttga aattggcaaa ggcagtaagg 180
 ttaagtatga gctggacaag acaagtggac ttataaagggt tgatcgtatt ctttactcat 240
 cagttgtcta cccacacaac tatggt 266

<210> 2206
 <211> 290
 <212> DNA
 <213> Glycine max

<400> 2206

agtttctctt atctctaagt caacatggct caccatgaag attcaagtgt atggaattcg 60
 agtataacct accctaagct caatgaaaga attttgtctt ctctgtcacg gagaactgtt 120
 gctgctcacc cctggcacga tttagagatt gggccaggag ctccagctgt tttcaactgt 180
 gtggttgaaa ttggcaaagg cagtaagggt aagtatgagc tggacaagac aagtggactt 240
 ataaagggtg atcgattctg tactcatcag ttgtctaccc acacaactat 290

<210> 2207
 <211> 296
 <212> DNA
 <213> Glycine max

<220>
 <221> unsure
 <222> (1)..(296)
 <223> unsure at all n locations

<400> 2207

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 gcatgggaat tcgagtatac ctcaccctaa gctncaatga aagaattctg tcttctctgt 120

cacggagaac tgttgctgct caccctggc acgatttaga gattggggcc aggagctcca 180
gctgttttca actgtgtggt tgaaattggc aaaggcagta aggttaagta tgagctggac 240
aagacaagtg gacttataaa ggntgatcgt attctttact catcagttgt ctaccc 296

<210> 2208
<211> 259
<212> DNA
<213> Glycine max

<400> 2208

ctttctctta tctctaagtc aacatggctc accttgaaga ttcaagtgca tggaattcga 60
gtatacctca ccctaagctc aatgaaagaa ttctgtcttc tctgtcacgg agaactgttg 120
ctgctcacc cttggcagat ttagagattg ggccaggagc tccagctgtt ttcaactgtg 180
tggttgaaat tggcaaaggc agtaaggta agtatgagct ggacaagaca agtggactta 240
taaaggttga tcgtattct 259

<210> 2209
<211> 287
<212> DNA
<213> Glycine max

<400> 2209

tttcgcactt tctttcagtc accatctccg actctttctc ttatctctaa gtcaacatgg 60
ctcaccttga agattcaagt gcatggaatt cgagtatacc tcaccctaag ctcaatgaaa 120
gaattctgtc ttctctgtca cggagaactg ttgctgctca ccctggcac gatttagaga 180
ttggggccagg agctccagct gttttcaact gtgtggttga aattggcaaa ggcagtaagg 240
ttaagtatga gctggacaag acaagtggac ttataaagggt tgatcgt 287

<210> 2210
<211> 281
<212> DNA
<213> Glycine max

<400> 2210

ctttcactca ccagtcacca cctctgaact ctctctctca tctataagtc aacatggctc 60
atcatgaaga ttcaagtgca tggaattcga gtaaacctca ccctaagctc aatgaaagaa 120

ttctgtcttc tctgtcacgg agaactgttg ctgctcacc ctggcacgac ttagagattg 180
ggccaggagc tccagcagtt ttcaactgtg tggttgaaat tggcaaagga agtaaggta 240
agtatgagct ggacaagaca agtggactta taaagggtga t 281

<210> 2211
<211> 242
<212> DNA
<213> Glycine max

<400> 2211

ctctcatcta taagtcaaca tggctcatca tgaagattca agtgcattga attcgagtaa 60
acctcaccct aagctcaatg aaagaattct gtcttctctg tcacggagaa ctgttgctgc 120
tcacccttgg cactgacttag agattggggc aggagctcca gcagttttca actgtgtggt 180
tgaaattggc aaaggaagta aggttaagta tgagctggac aagacaagtg gacttataaa 240
gg 242

<210> 2212
<211> 255
<212> DNA
<213> Glycine max

<400> 2212

tccgactctt tctcttatct ctaagtcaac atggctcacc atgaagattc aagtgtatgg 60
tattcgagta tacctcacc taagctcaat gaaagaattt tgtcttctct gtcacggaga 120
actgttgctg ctcaccctg gcacgattta gagattgggc caggagctcc agctgttttc 180
aactgtgtgg ttgaaattgg caaaggcagt aagggttaagt atgagctgga caagacaagt 240
ggacttataa aggtt 255

<210> 2213
<211> 246
<212> DNA
<213> Glycine max

<400> 2213

tctgaactct ctctctcatc tataagtcaa catggctcat catgaagatt caagtgcatt 60
gaattcgagt aaacctcacc ctaagctcaa tgaaagaatt ctgtcttctc tgtcacggag 120

aactgttgct gctcaccctt ggcacgactt agagattggg ccaggagctc cagcagtttt 180
 caactgtgtg gttgaaattg gcaaaggaag taaggттаag tatgagctgg acaagacaag 240
 tggact 246

<210> 2214
 <211> 246
 <212> DNA
 <213> Glycine max

<400> 2214

tctgaactct ctctctcatc tataagtcaa catggctcat catgaagatt caagtgcatt 60
 gaattcgagt aaacctcacc ctaagctcaa tgaaagaatt ctgtcttctc tgtcacggag 120
 aactgttgct gctcaccctt ggcacgactt agagattggg ccaggagctc cagcagtttt 180
 caactgtgtg gttgaaattg gcaaaggaag taaggттаag tatgagctgg acaagacaag 240
 tggact 246

<210> 2215
 <211> 266
 <212> DNA
 <213> Glycine max

<400> 2215

ctcaccagtc accacctctg aactctctct ctcatctata agtcaacatg gctcatcatg 60
 aagattcaag tgcattggaat tcgagtaaac ctcacctaa gctcaatgaa agaattctgt 120
 cttctctgtc acggagaact gttgctgctc acccctggca cgacttagag attgggccag 180
 gagctccagc agttttcaac tgtgtgggtt gaaattggca aaggaagtaa ggttaagtat 240
 gagctggaca agacaagtgg acttat 266

<210> 2216
 <211> 248
 <212> DNA
 <213> Glycine max

<220>
 <221> unsure
 <222> (1)..(248)
 <223> unsure at all n locations

<400> 2216

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tcaagtgcac ggaattcgag taaacctcac cctaagctca atgaaagaat tctgtcttct 120

ctgtcacgga gaactgttgc tgctcacccc tggcacgact tagagattgg gccaggagct 180

ccagcagttt tcaactgtgt ggttgaaatt ggcaaaggaa gtaaggttaa gtatgagnct 240

gacaagac 248

<210> 2217

<211> 242

<212> DNA

<213> Glycine max

<400> 2217

ccagtcacca cctctgaact ctctctctca tctataagtc aacatggctc atcatgaaga 60

ttcaagtgca tggaattcga gtaaacctca ccctaagctc aatgaaagaa ttctgtcttc 120

tctgtcacgg agaactgttg ctgtcacccc ctggcacgac ttagagattg ggccaggagc 180

tccagcagtt ttcaactgtg tgggtgaaat tggcaaagga agtaaggtta agtatgagct 240

gg 242

<210> 2218

<211> 246

<212> DNA

<213> Glycine max

<220>

<221> unsure

<222> (1)..(246)

<223> unsure at all n locations

<400> 2218

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nattcgagta tacctacccc taagctcaat gaaagaattc tgtcttctct gtcacggaga 120

actgttgctg ctcaccctg gcacgatttg agattgggcc aggagctcca gctgttttca 180

actgtgtggt tgaaattggc aaaggcagta aggttangta tgagctggac agacaagnng 240

attata 246

<210> 2219
 <211> 249
 <212> DNA
 <213> Glycine max

 <400> 2219

 gtcaccacct ctgaactctc tctctcatct ataagtcaac atggctcatc atgaagattc 60
 aagtgcattg aattcgagta aacctacccc taagctcaat gaaagaattc tgtcttctct 120
 gtcacggaga actgttgctg ctcacccctg gcacgactta gagattgggc caggagctcc 180
 agcagttttc aactgtgtgg ttgaaattgg caaaggaata acgtaagtat gagctggcag 240
 acaagtgga 249

<210> 2220
 <211> 196
 <212> DNA
 <213> Glycine max

 <400> 2220

 ctgaactctc tctctcatct ataagtcaac atggctcatc atgaagcatt caagtgcac 60
 gaattcgagt agacctcacc ctaagctcaa tgaaagaatt ctgtcatctc tgtcacggag 120
 aactgttgct gctcacccct ggcacgactt agagattggg ccaggagtcc cagcagtttt 180
 caactgtgtg gttgaa 196

<210> 2221
 <211> 227
 <212> DNA
 <213> Glycine max

 <400> 2221

 ccaagacgag cttcaccttg cgccgaaggc cacagatggg tgaaaccgat atggatgccg 60
 aaactgttgc aaatgtgggt ccaccaaagg agactcctca cagtgttccc atctcttata 120
 attcctcaca ctcacaccct tctcttaatg agaggattat ttcatccatg accagaagat 180
 ctgttgctgc acaccgtgg cacgaccttg agatagggcc tgggtgct 227

<210> 2222
 <211> 253
 <212> DNA
 <213> Glycine max

<400> 2222

gaacaatagt agcaagcaga gcccgaagac gagcttcacc ttgcgccgaa gggccacaga 60
tggttgaaac cgatatggat gccgaaactg ttgcaaagt ggtccacca aaggagactc 120
caaacatggt cccatctctt atcattcctc acactcacac cctcctctta atgagagatt 180
atttcatcca tgaccagaag atctgttgct gcacacccgt ggcacgacct tgagataggg 240
cctggtgctc caa 253

<210> 2223

<211> 276

<212> DNA

<213> Glycine max

<400> 2223

gtcgaaatag ggaaaggaag caaggtgaaa tatgaacttg aaaaagaac tggacttatt 60
atggttgatc gtatacttta ctcatcagtt gtttaccctc acaactatgg gttcattcca 120
cgtactatth gtgacgacgg tgatcccatg gatgtcttgg ttattatgca ggagccagtt 180
cttcggggtt gctttcttcg ggccaaagct attggtctca tgcctatgat tgatcagggg 240
gagacagatg acaagataat tgctgtctgt gctgat 276

<210> 2224

<211> 269

<212> DNA

<213> Glycine max

<400> 2224

taggacctga agctccaaag atcttcaact gtgtggttga aattgggaaa ggaagtaagg 60
tgaaatatga acttcacaaa agaactgggc ttattatggg tgatcgtatc ctttactcat 120
cggctgtgta tcctcacaaac tatgggttta tcccacgtac tatttgtgag gatggtgatc 180
ccatggatgt cttggttacc atgcaggagc cagttcttcc aggttgcttt ctacgggcca 240
aagctattgg actcatgcct atgattgat 269

<210> 2225

<211> 276

<212> DNA

<213> Glycine max

<400> 2225

cttaacgaga ggattctttc atccatttcc aggagacacg ttgctgcaca cccgtggcac 60

gatcttgaga taggaccoga agctccaaag atcttcaact gtgtggtcga aatagggaaa 120

ggaagcaagg tgaaatatga acttgacaaa agaactggac ttattatggt tgatcgata 180

ctttactcat cagttgttta tcttcacaac tatgggttta ttccacgtac tatttgtgag 240

gacggtgatc ccatggatgt cttggtatta tgcagg 276

<210> 2226

<211> 240

<212> DNA

<213> Glycine max

<400> 2226

ggaaacatgt tgctgctcac ccgtggcatg atcttgagat aggacctgaa gctccaaaga 60

tcttcaactg tgtgggtgaa attgggaaag gaagtaagggt gaaatatgaa cttgacaaaa 120

gaactgggtct tattatgggt gatcgatcc ttactcatc ggttggtgat cctcacaact 180

atggggttat cccacgtact atttgtgagg acggtgatcc catggatgtc ttgggttatca 240

<210> 2227

<211> 239

<212> DNA

<213> Glycine max

<400> 2227

acttattatg gttgatcgta tactttactc atcagttggt taccctcaca actatggggt 60

tattccacgt actatttgtg aggacgggtga tcccatggat gtcttgggtta ttatgcagga 120

gccagtcttc cgggttgctt tcttcgggcc aaagctattg gtctcatgcc tatgattgat 180

cagggtgaga aagatgacaa gataattgct gtctgtgctg atgatectga gtataggca 239

<210> 2228

<211> 268

<212> DNA

<213> Glycine max

<400> 2228

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tgaaatatga acttgacaaa agaactggtc ttattatggt tgatcgtatc ctttcctcat 120
 cggttgtgta tcctcacaac tatgggttta tcccacgtac tatttgtgag gatggtgatc 180
 ccatggatgt cttggttatc atgcaggagc cagttcttcc aggttgcttt ctacgggcca 240
 aagctattgg actcatgcct atgattga 268

<210> 2229
 <211> 269
 <212> DNA
 <213> Glycine max
 <400> 2229

ctgtttcttc tttttctcca accttcggtt caccaccaca cttacattac tttgtcgaaa 60
 tggctccacc aattgagacc ccaaacaagg tttccagcta tcaacagtcc ccaaaccctc 120
 gtcttaacga gaggattctt agatacattt ccaggagaca cggttgctgca caccctggtc 180
 acgatcttga gataggaccc gtagctcaa agatcttcaa ctgtgtgggc gaaataggga 240
 aaggaagcaa ggtgaaatat gaacttgac 269

<210> 2230
 <211> 269
 <212> DNA
 <213> Glycine max
 <400> 2230

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 gtcgagtgtg gaaatggctc caccaattga gacccaacc aaggtttcca gctatcagca 120
 ctccccaaac cctcgtctta acgagaggat tctttcatcc atttccagga aacatgttgc 180
 tgctcaccgc tggcatgatc ttgagatagg acctgaagct ccaaagatct tcaactgtgt 240
 gggttgaaatt gggaaaggca gtaaggta 269

<210> 2231
 <211> 283
 <212> DNA
 <213> Glycine max
 <220>
 <221> unsure
 <222> (1)..(283)

<223> unsure at all n locations

<400> 2231

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atttcatttc actcactcan tcttcgtttc gtttctcttt ctactctag atctgtgttt 60
ctctctacca accttcgttt caccacactt ccatcacttg tcgagtgtag aaatggctcc 120
accaattgag accccaacca aggtttccag ctatcagcac tcccanacc ctccgtctta 180
acgagaggat tctttcatcc atttccagga aacatgttgc tgctcaccgc tggcatgac 240
ttgagatagg acctgaagct ccaaagatct tcaactgtgt ggt 283
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<210> 2232

<211> 269

<212> DNA

<213> Glycine max

<400> 2232

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attccacaca caccacaaca tcacactctc tagatctctg tttcttcttt ttctccaacc 60
ttcgtttcac caacacactt acattacttt gtcgaaatgg ctccaccaat tgagacccca 120
aacaagggtt ccagctatca acagtcccca aaccctcgtc ttaacgagag gattctttca 180
tccatttcca ggagacacgt tgctgcacac ccgtggcacg atcttgagat aggacccgaa 240
gtcctaaaga tcttcaactg tgtggtcga 269
```

<210> 2233

<211> 444

<212> DNA

<213> Glycine max

<220>

<221> unsure

<222> (1)..(444)

<223> unsure at all n locations

<400> 2233

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tacggctgcg agaagacgac agaaggggac acacgttctc tgtgactgcc tctgttccgc 60
caagcgcagc attttcccac cgttcaggcc accggctgag ttaggtttcc ggcgaggatg 120
ggtgctgctc tgctgtcgga gcttgcgacg gagatagtcg tgccagtgtg cgccgtcatc 180
gggatcgtgt tctcgctggt gcagtggttc ctctgtctgc gcgtcaagct cactcccgac 240
cgcaacggaa cgacgtctgc gcgcgcgaac aacaaaaacg gctacggcga cttcctcatt 300
```

gaagaggaag aaggcatcaa cgaccacagc gtcgttgtga aatgcgctga gatacagaac 360
gctatctccg aaggtgcaac atcctttctt ttcactgaat atcaatatgt gnggattttc 420
atggttgctt ttgcaatact gatc 444

<210> 2234
<211> 436
<212> DNA
<213> Glycine max
<220>
<221> unsure
<222> (1)..(436)
<223> unsure at all n locations
<400> 2234

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tttccggcga ggatgggtgc tgctctgctg tcggagcttg cgacggagat agtcgtgcca 120
gtgtgcgccg tcatcgggat cgtgttctcg ctggtgcagt ggttcctcgt gtcgcgcgctc 180
aagctcactc ccgaccgcaa cggaacgacg tcgtcgccgc gcaacaacaa aaacggctac 240
ggcgacttcc tcattgaaga agaagaaagc atcaacgacc acagcgtcgt tgtgaaatgc 300
gctgagatac agaacgctat ctccgaaggt gcaacatcct ttcttttcac tgaatatcaa 360
tatgtgggga tcttcatggt tgcttttgca atactgatct tnccttttct gtgctctgtg 420
gaaggcttca gtacta 436

<210> 2235
<211> 408
<212> DNA
<213> Glycine max
<400> 2235

acggctgcga gaagacgaca gaagggggag ctteccctcac acattctctg tgactgcctc 60
tgttccgcgg aaccagcat tttcccaccg ttcggggcac cggcggagtt agttttccgg 120
caaggatggg tgctgctctg ctgtctgagc ttgcgacgga gatagttgtg ccggcctgcg 180
ccgtcatcgg gatcgtgttc tcgttggtgc agtggttcct cgtgtcgcgc gtcaagctca 240
ctcccgaccg aaacggaacg acgtcgtcgc cgcgcaacaa caagaacggc tacggcgact 300

tcttcattga ggaggaagaa ggcacaaacg accacagcgt cgttgtgaaa tgcgctgaga 360
 tacagaacgc tatctccgaa agtgcaacat cctttctttt cactgaat 408

<210> 2236
 <211> 396
 <212> DNA
 <213> Glycine max

<400> 2236

gactctttct cttatctcta agtcaacatg gctcaccttg aagattcaag tgcattggaat 60
 tcgagtatac ctcaccctaa gctcaatgaa agaattctgt cttctctgtc acggagaact 120
 gttgctgctc acccctggca cgatttagag attggggccag gagctccagc tgttttcaac 180
 tgtgtggttg aaattggcaa aggcagtaag gttaagtatg agctggacaa gacaagtgga 240
 cttataaagg ttgatcgtat tctttactca tcagttgtct acccacacaa ctatggtttt 300
 atcccaagaa ccatttgtga agacagtgat cctatggacg tgctggttct aatgcaggaa 360
 cccgtgcttc ctggttcctt cctcgtgct cgtgct 396

<210> 2237
 <211> 376
 <212> DNA
 <213> Glycine max

<400> 2237

agtaaggctg cgagaagacg acagaagggg acagaagaat agtagcaatc agagactgaa 60
 gacgagcttc cccttgcgcc gaagggccac cgatggttga aaccgagatg gatgcagaaa 120
 ctggtgcaaa tgtggttcca ccaaaggaga ctccaaatag tgtttccatt tctcatcatt 180
 cctcacaccc tccccttaat gagaggatta tttcatccat gaccaggaga tctggtgctg 240
 cacacccatg gcatgacctt gagaatagga ctggtgctca aattatcttc aattgtgtga 300
 ttgaaattgg gaaagggacc aagggtgaaat atgaactgga caaaaagtcg gggcttatca 360
 agatcgaccg cgtgct 376

<210> 2238
 <211> 352
 <212> DNA
 <213> Glycine max

<400> 2238

agtacggctg cgagaagacg acagaagggg acagaacaat agtagcaagc agagccccc 60

gatctgtgct tgaaccttca cgtgtgtttc cttccttctg cagacgagct tcaccttgcg 120

ccgaagggcc acagatgggt gaaaccgata tggatgccga aactgttgca aatgtgggtc 180

caccaaagga gactccaaac agtgttccca tctcttatca ttcctcacac tcacaccctc 240

ctcttaatga gaggattatt tcatccatga ccagaagatc tgttgctgca caccctgggc 300

acgaccttga gataaggcct gatgctccaa cgatcttcaa ttgtgtgatt ga 352

<210> 2239

<211> 251

<212> DNA

<213> Glycine max

<400> 2239

agtacggctg cgagaagacg acagaagggg cacaccctg gcacgatctt gagataagac 60

ccgaagctcc aaagatcttc aactgtgtgg tcgaaataag gaaaggaagc aagggtgaaat 120

atgaacttga caaaagaact ggacttatta tggttgatcg tatactttac tcatcagttg 180

tttatcctca caactatggg ttatttccac gtactatttg tgaggacggg gattccatgg 240

atgtcctggg t 251

<210> 2240

<211> 401

<212> DNA

<213> Glycine max

<400> 2240

gagactcaac aagcattcca ctcacacctc atcgtttctc tctctagatc tctgtttctt 60

ctttttctcc aaccttcgtt tcaccaccac acttacatta ctttgctgaa atgggtccac 120

caattgagac cccaacaag gtttccagct atcaacagtc cccaaccct cgtcttaacg 180

agaggattct tcatccatt tccaggagac acgttgctgc acaccctgg cacgatcttg 240

agataggacc cgaagctcca aagatcttca actgtgtggg cgaaataggg aaaggaagca 300

aggtgaaata tgaacttgct aaaagaactg gacttattat ggttgatcgt atactttact 360

catcagttgt ttatcctcac aactatgggt ttattccacg t 401

<210> 2241
 <211> 411
 <212> DNA
 <213> Glycine max

<220>
 <221> unsure
 <222> (1)..(411)
 <223> unsure at all n locations

<400> 2241

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agtacggctg cgagagacga cagaagggga gactcaacaa gcattccact cacacctcat 60
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ttacattact ttgtcgaaat ggctccacca attgagaccc caaacaaggt ttccagctat 180
caacagtccc caaacctctg tcttaacgag aggattcttt catccatttc cgggagacac 240
gttgctgcac acccgtggca cgatcttgag atanngaccg aagctccaaa gatcttcaac 300
tgtgtggctg anatangga aggaagcaag gtgaaatatg aacttgacaa aagaactgga 360
cttattatgg ttgatcgtat actttactca tcagttgttt atcctcacia c 411
  
```

<210> 2242
 <211> 273
 <212> DNA
 <213> Glycine max

<400> 2242

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caacaacaac aacaacgttg tagtgtgttg ttttgttttt tagtgcagtt tatttttttg 60
gcatcaaagt ggttgaatcc atggattgtg gttatggat tcccaggga ctctcagatc 120
ttcagaagat tcggtctttg taccagccag agtccctcc ttgtctccag ggaaccactg 180
tgaggggttg atttggtgac gcaaccacca ctgctgaccc cactgatgca gtcaccgtct 240
gcagggcttt tcgtggcgct tgtggacacc ttt 273
  
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<210> 2243
 <211> 340
 <212> DNA
 <213> Glycine max

<220>
 <221> unsure
 <222> (1)..(340)

<223> unsure at all n locations

<400> 2243

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aaccatggct atgtctacta ttttgctttt gactttcttt tctttcattt atggcagtgc   60
agctactcat cacgtttata gaaatcttca gagtttatct tctgattcct ccaaccaacc  120
tnacagaact gcttatcact tccaacctcc caagaattgg ataaatgatc ccaatggacc  180
atgagatatg caggacttta ccacctattc tatcaataca atcctaaagg tgcagtttgg  240
ggaaatattg tgtgggcaca ttcagtgtca aaggatctng tgaattggac tccactagat  300
cctgccattt ttncatctca accgtccgat ataatggctg                        340
```

<210> 2244

<211> 273

<212> DNA

<213> Glycine max

<220>

<221> unsure

<222> (1)..(273)

<223> unsure at all n locations

<400> 2244

```
aaaatggang gtagtcattg gtgctcaaaa tggggatgaa gggaagacaa ttctctacca   60
aagtgaggat tttgttaatt ggagtccgga attgaaccct ttttttgcaa cagataacac  120
tggagtttgt gagtgtccag atttttnctc ctgtgtccat caatagcaca aatggggtgg  180
atncatctgt ccaaagtnca aagtgttaga acatgtcttg aagataacna ctacgtagac  240
atcaggatat natcttcngg taaataggtc tat                                273
```

<210> 2245

<211> 276

<212> DNA

<213> Glycine max

<400> 2245

```
aacaccctca gaaccctgtc atgagtccac caagtggagt tgccgtgaat aacttcagag   60
acccttcaac tgcttggcag ggaaaggatg gaaaatggag ggtagtaatt ggtgctcaaa  120
atggtgatga agggaagaca attctctacc aaagtgagga ctttgttaat tggaaagtgg  180
atcctaatac cttctacgca tcagataata ccggagtttg tgagtgtcca gacttcttcc  240
```

ctgttaacat cagtggcagc aaaaatgggg tggata 276

<210> 2246
 <211> 267
 <212> DNA
 <213> Glycine max

<400> 2246

gctaacatga tcaattcaag ctcatttagg gatcctacca ctgcttggct aggcaaagat 60
 ggggtactgga ggggtgctgat tggaagcaaa atacacacta ggggtatggc aattttgtac 120
 aagagcaaaa actttgttaa ttgggttcaa gccaaacaac ccctacattc agctgaaggc 180
 actggaatgt gggagtgcc tgatttctat ccagtgctga ataataaacc atcatcaact 240
 attggtcttg acacatctgt gaatggt 267

<210> 2247
 <211> 253
 <212> DNA
 <213> Glycine max

<400> 2247

ccctaattgtc aagacgagtt cacttagaag tttgattgac cgctccatta ttgagagttt 60
 tggggagaaa gggagaattt gtattaccag tagagtttat ccctcgttgg ctattgacaa 120
 agatgcacat cttgatgttt tcaagaatgg aagccagagt gtggtgatct ctgaactgaa 180
 tgcttggagc atgaaggaag cagaatttag ttaagaagaa agcacaatta agctgtaact 240
 aaaaagattt gga 253

<210> 2248
 <211> 276
 <212> DNA
 <213> Glycine max

<220>
 <221> unsure
 <222> (1)..(276)
 <223> unsure at all n locations

<400> 2248

cttcaaacca agacattagc natctagctc ttgttgacat tcnaatacac tttggtagct 60

atgatcatgg agatcaatgc atcccccgac aacattaatt cagtcaagta caacgtacat 120
 gaaaaacagc cttaccgaac ttggtaccac tttcagcccc cacaaaattg gatgaatgat 180
 ccaaattggac caatgtacta caaaggagtt taccactttt tctaccaaca taacccttat 240
 gcaccaacct ttggtaggca tatggtatgg ggtcnt 276

<210> 2249
 <211> 261
 <212> DNA
 <213> Glycine max

<400> 2249

cctagctctt gttgacattc caataacttt ggtgctatga tcatggagat caatgcatcc 60
 cccgacaaca ttaattcagt caagtacaac gtacatgaaa aacagcctta ccgaacttgg 120
 taccactttc agcccccaaca aaattggatg aatgatccaa atggaccaat gtactacaaa 180
 ggagtttacc actttttcta ccaacataac gcttatgcac caactttggt aggctatggt 240
 atgggggtcat ccgcatctat g 261

<210> 2250
 <211> 339
 <212> DNA
 <213> Glycine max

<400> 2250

cgtccgatgg attaaaggat agtcaaactg tcctaagata tgactatgga aaatattatg 60
 cctcaaaaac catttttgag gatggaaaga acagaatggg cttattgggt tgggttaatg 120
 aatcctcaag tgtttcggat gatatcaaga aaggatgggc tggaatccat actattccaa 180
 gggccatctg gcttcataaa tctggaaaac agttggtgca atggccggtg gtggaacttg 240
 aaagcttacg tgtgaatcct gtccactggc ccaacaaagt ggtcaaagg ggtgaaatgc 300
 ttcaagttac tgggtgttact tgcgcacaag ctgacgttg 339

<210> 2251
 <211> 437
 <212> DNA
 <213> Glycine max

<220>
 <221> unsure

<222> (1)..(437)
 <223> unsure at all n locations

<400> 2251

```
cgaaaaacca tttntgagga tggaaagaac agtaaggtct tattgggttg ggtaaatgaa 60
tcctcaagtg tttcggatga tatcaagaaa ggatgggctg gaatccatac tattccaagg 120
gccatctggc ttcataaatc tggaaaacag ttggtgcaat ggccggtggg ggaacttgaa 180
agcttacgtg tgaatcctgt cactggccc accaaagtgg tcaaaggtgg tgaaatgctt 240
caagttactg gtgttactgc ggcacaggct gacgttgaaa ttccatttga cgtgaatgag 300
tttgaaagg gcgaagtatt ggaccaatgg gtggatcccc aaattctggg tagtagaaag 360
ggtgcagccg taaaggggtg tttgggaccc tatggcttgc tagtttttgc ttctcgtggc 420
ttgcaagagt acacggc 437
```

<210> 2252
 <211> 352
 <212> DNA
 <213> Glycine max

<400> 2252

```
catggccgta tctccaattt tgcgttggt ggctatctgc tatctcattt atggcacggg 60
tggtcttccc attgaatcta cccaccatgt ttacagaaat cttcagactc tatcttctga 120
ttcctctgat caaccttata gaaccgctta ccatttccaa cctcccaaaa attggataaa 180
tgacccta at ggaccaatga ggtacaaatg actttatcat ctcttctacc aatacaattc 240
aaaaggtgct gtatggggta atattgtgtg gcccactca gtatcaa atctcgtgta 300
ttggactcct ctagatcatg ccatctaccc tctcaacct tatgatatca ac 352
```

<210> 2253
 <211> 396
 <212> DNA
 <213> Glycine max

<400> 2253

```
attccattaa aagctatacc atggccatat ctccaatttt gttgttggt atcttatctg 60
tcatttatgg caatggtgtt cttcccattg aagctaccca tcatgtttac agaaatcttc 120
agactctatc ttctgattcc tctgatcaac cttatagaac tgcttaccat ttccaacctc 180
```

gcaaaaattg gataaatgac cctaattggac caatgaggta caaaggactt taccatctgt 240
tctatcaata caatccaaaa ggtgccgtat ggggcaatat tgtctgggcc cactcaatat 300
caaatgatct tgtgaattgg actccactgg atcatgccat ctacccttct caaccgtctg 360
atataaacgg ttgttggtca ggctcagcca caatac 396

<210> 2254
<211> 451
<212> DNA
<213> Glycine max

<220>
<221> unsure
<222> (1)..(451)
<223> unsure at all n locations

<400> 2254

ggccgtatct ccaattttgt tgttggtggc tatcttctct ctcatttatg gcaatggat 60
tcttccatt gaagctaccc accatgttta cagaaatctt cagactctat cttctgattc 120
ctctgatcaa ccttatagaa ccgcttacca tttccaacct cccaaaaatt ggataaatga 180
ccctaattgga ccaatgaggt acaaaggact ttatcatctc ttctaccaat acaatccaaa 240
aggtgctggt tggggtaata ttgtgtgggc cactcagta tcaaaggatc ttgtgaattg 300
gacccctcta gatcatgcca tctacccttc tcaaccgtct gatatcaacg gttgttggtc 360
aggctcagcc acaatacttc ctgggggcaa accagccatt ntatacacag gaattgacct 420
taataatcac caagttcaaa acttagccct a 451

<210> 2255
<211> 283
<212> DNA
<213> Glycine max

<220>
<221> unsure
<222> (1)..(283)
<223> unsure at all n locations

<400> 2255

gttttcatag gcttctnttt tctcttggtg cagtnacgaa cttctgaaga antggcagat 60
ncatccttng acacactctc actctttccg cganaggttt cangacaact ctcaactggn 120

cacaggaacg aaattttngc ccttgctgtg caaggcttga agccangggc aagggaatnc 180
 tgcaacatgc accaagtggg tncagagttt gnagacatcc ctgaggagan cagaaagaan 240
 ctgccaagat ggtgtcttgg agaagttttg agntccacac agg 283

<210> 2256
 <211> 267
 <212> DNA
 <213> Glycine max

<400> 2256

aagtcagtgg tactgaccat actcatattt tgcgagttcc attcagatca gagtcaggaa 60
 ctctccgtaa atggatttca aggtttgatg tgtggcctta tctagagact tatgcagagg 120
 atgttgccag tgaaattgct gctgagttac aagggtatcc tgatttcac attggaaact 180
 acagtgatgg gaatcttggt gcatctttat tggcttataa aatgggaggt acacagtgca 240
 caatcgcgca tgcacttgag aagacaa 267

<210> 2257
 <211> 264
 <212> DNA
 <213> Glycine max

<220>
 <221> unsure
 <222> (1)..(264)
 <223> unsure at all n locations

<400> 2257

agtacacatg gcaaatttac tcacagaggc ttctcactct caaggntaga nacangcttc 60
 cagaagccat agacaccagt gagagtgaga agcctctgga agcnngtgtc taaccttgac 120
 cgccgtgaga gccgccgcta tctcgagatg tncatgctc tcaagtaccg caaatnggcc 180
 gagtcgngcc ccttgctggt gagtaaactg aggatgaaga gncggntaaa gaaatggagg 240
 aaccggcttt ttgtttctca ttgg 264

<210> 2258
 <211> 119
 <212> DNA
 <213> Glycine max

<220>
 <221> unsure
 <222> (1)..(119)
 <223> unsure at all n locations

 <400> 2258

 tactgctnaa cgggtattgg aaatgatgca tctgctantg gatattcttc aggctcctga 60
 tccttccnca caacatacgn gnngccgnnt ngcgnnccggc ggngctgggg ggggnngggc 119

 <210> 2259
 <211> 271
 <212> DNA
 <213> Glycine max

 <220>
 <221> unsure
 <222> (1)..(271)
 <223> unsure at all n locations

 <400> 2259

 gtgnnaagct catgttatct acagctgaga attcaactta aatggatttg aatgttcata 60
 tgtgtagtgc acaatcgcg c atgcacttga gaagacaaaa tatccagatt cagatttata 120
 ttggaagaaa tttgaggata aataccactt ttcatgccaa tttactgcng acctaatagc 180
 catgaattct gctgatttta tcatcaccag tacataccag gagattgcng gaacgtaagt 240
 accgttttca tgatatatat gggttacttca g 271

 <210> 2260
 <211> 245
 <212> DNA
 <213> Glycine max

 <400> 2260

 ggcttggttg atgcttttgg aaaagctcca agctgagaga gcttgtgaat cttgtggtag 60
 ttggtggcta cattgatgta cagaagtcta cggacataga agaaatgagg gagatagaga 120
 aaatgcacaa tctcatagaa gaatacaact tacatggcca attccgttgg ataaaggccc 180
 aaatgaatcg cgctcgtaat ggagagctct accgttatat tgctgatgtg aaagggtgctt 240
 ttgtg 245

 <210> 2261

<211> 98
 <212> DNA
 <213> Glycine max

 <400> 2261

 catgagcttg ccaaagagtt gcaaggtcag ccagattcga ttgtcggaaa ctacagtgat 60
 ggaaacattg ttgcctcttt gttggcacat aaattagg 98

 <210> 2262
 <211> 209
 <212> DNA
 <213> Glycine max

 <400> 2262

 actctatata acccacctct ctttattgcy ttcattctgt tttactgttg aagtctttca 60
 ctagccaata gccaccgatc atttgacctg gttcacagtc tacgtgagag gcttgatgaa 120
 accctcactg ccaacaggaa tgaaatttag gcccatcagt caaggatcga tgtcaagggc 180
 aaaggcatca tacaaaaaca ccaggatcat 209

 <210> 2263
 <211> 175
 <212> DNA
 <213> Glycine max

 <400> 2263

 cagaattcaa aacgcagatg cactccaaca tggtctgagg aaagctgagg agtatcaggg 60
 cacagtgcct cctgaaactc cctactcaga atttgagcac aagttccagg agattggttt 120
 ggagagaggg tggggtgaca acgcggaggt gatccttgag tcaattcaaa ttctc 175

 <210> 2264
 <211> 263
 <212> DNA
 <213> Glycine max

 <400> 2264

 tgggtgtatag agaatgtcgt gttgctgac attccattgg gccattggaa attcgtgttg 60
 tgaggagtgg gagctttaag gagcttatag atgatgcagt ctcaagaggt gcggccataa 120
 atcaagaaga tgtgtggcct catcgagacc tacagattga acggccaatt cagatggata 180

tcgtctcaga tgaaccgtgt gaggaacgaa gagctctacc gtgtcgtctg tgacacaagg 240
 ggtgcctatg tgcaactgca gtt 263

<210> 2265
 <211> 279
 <212> DNA
 <213> Glycine max

<400> 2265

ctccgagcac aagttcgtgc tgaaggacaa gaagaagccg atcatcttct cgatggcgcg 60
 tctcgaccgc gtgaagaaca tgacaggcct ggtggagatg tacggcaaga acgcgcgcct 120
 gagggagctg gcgaacctcg tgatcgtcgc cggtgaccac ggcaaggagt ccaaggacag 180
 ggaggagcag gcggagttca agaagatgta cagcctcatc gacgagtaca agttgaaggg 240
 ccatatccgg tggatctcgg cgcagcatga accgcgtcc 279

<210> 2266
 <211> 250
 <212> DNA
 <213> Glycine max

<400> 2266

agggatctct gatttcatca ttggaaacta cagtgatggg aatcttggtg catctttatt 60
 ggcttataaa atgggagtta cacagtgcac aatcgcgcat gcacttgaga agacaaaata 120
 tccagattca gatttatatt ggaagaaatt tgaggataaa taccactttt catgccaatt 180
 tactgctgac ctaatagcca tgaataatgc tgattttatc atcaccagta cataccagga 240
 gattgcggga 250

<210> 2267
 <211> 52
 <212> DNA
 <213> Glycine max

<400> 2267

ggtgttcgga actgagcact cccacattct tcgagttccc tttagaactg ag 52

<210> 2268
 <211> 236
 <212> DNA

<213> Glycine max

<400> 2268

caatttttgta ttggagcttg attttgagcc atttaatgcc acatttcctc gtccaactcg 60
ctcagcatcc attggcaatg gtgtccaatt tctcaatcgc cacctttcat ctattatgtt 120
tcgcaacaag gattccttgc agcccttgct tgatttcctc cgagctcaca aatacaaggg 180
ccatgctctg atgttaaagt atagaatata aaccatttcc aaacttcagc tgcatt 236

<210> 2269

<211> 243

<212> DNA

<213> Glycine max

<400> 2269

cagattcaga tttatattgg aatctggata ttttgtcttc tcaagtgcac gcgcgattgt 60
gcactgtgta actcccattt gatacactca atgaagatgc acttgagaag acaaaatata 120
cagattcaga tttatattgg aagaaatttg aggataaata ccacttttca tgccaattta 180
ctgctgacct aatagccatg aaaatgcgtg ttttatcatc accagtacat accaggagat 240
tgc 243

<210> 2270

<211> 86

<212> DNA

<213> Glycine max

<400> 2270

ggtgggcagg ttgtttatat actagatcaa gtgcgtgccc ttgaaaatga gatgctcctt 60
cggatcaaga aacagggact tgattt 86

<210> 2271

<211> 234

<212> DNA

<213> Glycine max

<400> 2271

attttataat cactagtaca taccaagaaa ttgcaggaag caagaataat gttggacaat 60
atgagagcta cactgccttc actcttccag gactgtatcg tgttgttcat ggcattgatg 120

tttttgatcc caagtttaat atcgtgtctc ctggtgcgga catgtgcata tattttccat 180
actcggacag agaaaggaga ctaacttctc tacatgggttc aattgaaaaa ctgg 234

<210> 2272
<211> 121
<212> DNA
<213> Glycine max

<400> 2272

cgttcattct gttttccagt tgaagtcttt ccacagccaa tggccactga tcgtttgacc 60
cgggttcaca gtctccgtga gacgcttgat gaaaccctca ctgccaacag gaacgaaatt 120
t 121

<210> 2273
<211> 167
<212> DNA
<213> Glycine max

<400> 2273

cgcaacgagt tcattctctt tctctccagg tatgttgctg ggggcaaagg aatactacaa 60
ccacatgacc tgctgtacga ggtagaaaag cttcttgaag aggatgaagg gatgcagaaa 120
ctcaaagata gcccttttgt caaagagcgt gaatctcaaa ggaagca 167

<210> 2274
<211> 221
<212> DNA
<213> Glycine max

<400> 2274

gaagaactta accggggttag ttgaatggta tggcaagaac aagagactga gaaatttggt 60
gaaccttgtc atagtaggag gcttctttgc cccttcaaaa tcaaaagata gggaggaaat 120
ggcagaaata aaaaatatgc atgacttaat tgataagtac caactcaagg gtcaatttag 180
atggattgct gctcagacta ataggatatcg caatggagag c 221

<210> 2275
<211> 166
<212> DNA
<213> Glycine max

<400> 2275

gtcaagggaa agactgtgat gtggaatgac agaattcaaa acccagatgc agtccaacat 60

gtgctgagga gagctgagga gtatcgaggc acagtgcctc ctgaaacgcg ctactcagag 120

tttgagcacg agggccagga gattggttag aggagagggt ggggtg 166

<210> 2276

<211> 222

<212> DNA

<213> Glycine max

<220>

<221> unsure

<222> (1)..(222)

<223> unsure at all n locations

<400> 2276

cgtgtgaaga acatcacagg actcgtggag tggtagcgta agaacgcgaa gtagagggag 60

ttggtgaacc ttgtggttgt tgccggagac aggaggaagg agtcgaagga cttggaagag 120

aaggccgaga tgaagaagat gtacggcctg atcgagacca aagtgttgaa cgggcaactc 180

agantgantt cagtatagag taaccgatct aggaacggag ag 222

<210> 2277

<211> 220

<212> DNA

<213> Glycine max

<400> 2277

ctttgagcag agcaaggctg atccatctca ctgggcaaaa atctcccccg gtggactcaa 60

gggtatcatg aggcatacac atggccaatt tactcggaca ggctcttgac actcactggt 120

gtgtatcgct tctggaagca cgtgaccaat cttgaacgcc gtgcgagcaa acgttacctc 180

gagatgttct atgctctcca gtaacgcaaa ttggctgagt 220

<210> 2278

<211> 169

<212> DNA

<213> Glycine max

<400> 2278

atgggagtta cacagtgcac aatcgcgcat gcacttgaga agacaaaata tccagattca 60

gatttatatt ggaagaaatt tgaggataaa taccactttt catggcaatt tactgctgac 120
ctaatagccca tgataaatgc tgatttaatc atcaccagtc attaccagg 169

<210> 2279
<211> 258
<212> DNA
<213> Glycine max

<220>
<221> unsure
<222> (1)..(258)
<223> unsure at all n locations

<400> 2279

ggttactttg cccaagataa tgtctgagtc gtancctgac acgtggtggg caggtttgtgt 60
acatcttagg tcaagttcgt gccttgaga atgagatgct caaccgcac aagacacaag 120
gccttgatat cacgcctcgt attctcatta ttactcgtct tcgccctgat gcagtaggaa 180
ctacctgtgg ccaacgtcta gagaccgtat atgataactga atattgtgac attctccgag 240
ttccttgcag aaccgaaa 258

<210> 2280
<211> 265
<212> DNA
<213> Glycine max

<400> 2280

gcagacagat aaaggaatcc tgcacatg gatttctcgc ttcgacattt acccctatct 60
tgagagggtt actcaggatg caacagccaa gattcttgag ttcattggaag ggaaaccaga 120
tctagttatt ggaaattaca ctgatggaaa tttggttagca tcactaatgg ctagaaaact 180
tgggataact cagggaacta tagcacatgc tttagagaag accaagtatg aagactcaga 240
tgtcaagtgg caagagttgg acccc 265

<210> 2281
<211> 266
<212> DNA
<213> Glycine max

<220>
<221> unsure

<222> (1)..(266)
 <223> unsure at all n locations

 <400> 2281

 gggttcaatt tctcaaccga catctgtcat cgttcatgtt tcgtagcaaa gaaagtttgg 60
 aacctctcct tgcatttctt cgcacacaca gatatgangg tcatgcaatg atgctaaatg 120
 ancgcattta taacttatcc aagctccagt cttccttggc aaaggcagaa gaattacttt 180
 ctagactacn acccaatgca ccatattctg actttgaata tgaactacaa ggattgggat 240
 ttgagagcgg ttgggggtgat acagca 266

<210> 2282
 <211> 254
 <212> DNA
 <213> Glycine max

<220>
 <221> unsure
 <222> (1)..(254)
 <223> unsure at all n locations

<400> 2282

 cacaacacgg gttgcctcac tttactctgc cgcagatgtt tatgttataa actctcaggg 60
 gctgggagaa acatttggac gtgtgactat agaagcaatg gcgtttgggc ttccggttct 120
 tgggacggac gctggaggaa cacaggagat tggtgagcac aatggttacag gtctcttcat 180
 cctgttggac atccggggaa tcttgttctt gcanagatcc cnggttttta ctcaaaaacc 240
 ngtgggaaag gaac 254

<210> 2283
 <211> 152
 <212> DNA
 <213> Glycine max

<220>
 <221> unsure
 <222> (1)..(152)
 <223> unsure at all n locations

<400> 2283

 gctggaagca aggacactgt tggacagtac gaatctcaca cagcatataa tcaccnnga 60
 ctctancgcg ttgtgcatgg tagggatgtc tttgagcgag aattcaacat tggctccct 120

ggagctgatc aaaccattta cttgccccca ca 152

<210> 2284
 <211> 224
 <212> DNA
 <213> Glycine max

<400> 2284

gcctggtgtg tgggagtact gacagcgcat gtgcacgctc ttattgtaga ggagttgcaa 60
 cctgctgagt accttcaatt gaaggaagca cttgctgatg gtagtatcta atggcgactt 120
 tgtgcttgag taggactttg aagcactcaa tgcagccttc tactgcgtca gtcctaaca 180
 agtcaactgg agatggtgtg gagtactcat gcgccacctt tctg 224

<210> 2285
 <211> 273
 <212> DNA
 <213> Glycine max

<400> 2285

tcctcttttg cgttcactct ggtctcatag tgacgaactt ctgaagaaat ggcacatcat 60
 cctgtgacac actctcactc tatccgagac acgcttgaac ccaagggcaa tggaatcctg 120
 caacatcacc aagtggttgc agagtatgaa gaaatccctg aggagagcag aaagaaactc 180
 caagatggtg tctttggaga agttttgaga tccacacagg aagccatagt gctgccacca 240
 cttgtagctc ttgctgttcg accaaggcct ggt 273

<210> 2286
 <211> 238
 <212> DNA
 <213> Glycine max

<400> 2286

ggaatatctg cgtgtgaatg tgtacatgct tgttgttgat gagcttcgct ctgctgagta 60
 tctgcgtttc aaggaggagc ttgttgaggg aagttcaaac ggcaacttat gtgcttgagt 120
 tggactttga accgtttaat gcataccttc ctgcgcccaa ctctgaacaa gtccattgga 180
 aatggcgctg agttcctcaa ccgccacctt tcggccaagc tcttcacac aacatacg 238

<210> 2287
 <211> 179
 <212> DNA
 <213> Glycine max

<400> 2287

tacggctgcg gaagacgaca gaaggggggg ggttgaagat acaagggaga gagacttaca 60
 tgtgttcctc attctccact gagctgtaaa gaagctcttc aatgtcagag tggaattctg 120
 ttaacctagg ctcagtttca gtgtatggga agtatatacc catgtctgca ccgggagag 179

<210> 2288
 <211> 293
 <212> DNA
 <213> Glycine max

<220>
 <221> unsure
 <222> (1)..(293)
 <223> unsure at all n locations

<400> 2288

gcgtttcaag gaggagcttg ttgaggggaag ttcaaacggc aactttgtgc ttgagttgga 60
 ctttgaaccg tttaatgcat ccttccctcg cccaactctg aacaagtcca ttggaaatgg 120
 cgtcgagttc ctcaaccgcc acctttcggc caagctcttc catgacaagg agaaccctca 180
 gtaactgctt gagttcctca ggcttcacag ttataaggga aagaccatga tgttgaacga 240
 caaagttcaa agcctggatt ctctccacat angatttgag aaaagcagaa gag 293

<210> 2289
 <211> 293
 <212> DNA
 <213> Glycine max

<220>
 <221> unsure
 <222> (1)..(293)
 <223> unsure at all n locations

<400> 2289

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 accctttgac aactctcac tctttccgcy agaggtttga tgaaactctc actgggcaca 120
 ggaatgaaat tttggccctt ttgtcaaagc ttgaagccaa gggcaaggga atcctgcaac 180

accaccaggt ggttcagag tttgaagaaa tccctgagga gagcagaaag aaactccaag 240
gtggtgtctt ttgagaagtt ttgagatcta cacaggaagc catagtgtg cca 293

<210> 2290
<211> 267
<212> DNA
<213> Glycine max

<400> 2290

gatcttctga agaaatggca aatcaccctt tgacacactc tcactctttc cgcgagaggt 60
ttgatccaac tctcactggc cacaggaatg aaattttggc ctttttgtca aggcttgaag 120
ccaagggcaa gggaatcctg caacaccacc aggtggttgc agagtttgaa gaaatccctg 180
aggagagcag aaagaaactc caagtggtg tctttggaga agttttgaga tctacacagg 240
aagccatagt gctgccacca tttgtgg 267

<210> 2291
<211> 267
<212> DNA
<213> Glycine max

<400> 2291

ccttcctttt ttgcgttcat tctgttttca tagtgacgaa cttctgaaga aatggcaa 60
catcctttga cacactctca ctctttccgc gagagggttg atgaaactct cactggtcac 120
aggaacgaaa ttttggccct tctgtcaagg cttgaagcca agggcaaggg aatcctgcaa 180
catcaccaag tggttgcaga gtttgaagaa atccctgagg agagcagaaa gaaactccaa 240
gatggtgtct ttgagaagtt tttgaga 267

<210> 2292
<211> 268
<212> DNA
<213> Glycine max

<400> 2292

gatcttctga agaaatggca aatcaccctt tgacacactc tcactctttc cgcgagaggt 60
ttgataaaac tctcactggc cacaggaatg aaattttggc ctttttgtca aggcttgaag 120
ccaagggcaa gggaatcctg caacaccacc aggtggttgc agagtttgaa gaaatccctg 180

aggagagcag aaagaaactc caaggtggtg tctttggaga agttttgaga tctacacagt 240
aagccatagt gctgccacca tttgtggc 268

<210> 2293
<211> 259
<212> DNA
<213> Glycine max

<400> 2293

cttcaccctt tccttttttg cgttcattct gttttcatag tgacgaactt ctgaagaaat 60
ggcaaatacat cctttgacac actctcactc tttccgcgag aggtttgatg aaactctcac 120
tggtcacagg aacgaaattt tggcccttct gtcaaggctt gaagccaagg gcaagggaat 180
cctgcaacat caccaagtgg ttgcagagtt tgaagaaatc cctgaggaga gcagaaagaa 240
actccaagat ggtgtcttt 259

<210> 2294
<211> 257
<212> DNA
<213> Glycine max

<400> 2294

tccttttttg cgttcattct gttttcatag tgacgaactt ctgaagaaat ggcaaatacat 60
cctttgacac actctcactc tttccgcgag aggtttgatg aaactctcac tggtcacagg 120
aacgaaattt tggcccttct gtcaaggctt gaagccaagg gcaagggaat cctgcaacat 180
caccaagtgg ttgcagagtt tgaagaaatc cctgaggaga gcagaaagaa actccaagat 240
ggtgtctttg gagaagt 257

<210> 2295
<211> 279
<212> DNA
<213> Glycine max

<400> 2295

tagcaccctt tcttctttta cgtacattct gttttcatag tgaggttctt ctgaagaaat 60
ggcaaatacac gcctttgaca cactctcact ctttccgcga gaggtttgat gtaactctca 120
ctaggtcaca ggaatgaaat tttggccctt tatgtcaagg cttgaagcca agggcaaggg 180

aattctgcaa caccaccagg tggttgcaga gtttgaagaa atccctgagg agagcagaaa 240
gaaactccaa ggtggtgtct ttggagaagt tttgagatc 279

<210> 2296
<211> 243
<212> DNA
<213> Glycine max

<400> 2296

caccccttct tcttttacgt tcattctgtt ttcatagtga ggatcttctg aagaaatggc 60
aaatcacctt ttgacacact ctactcttt ccgcgagagg tttgatgaaa ctctcactgg 120
tcacaggaat gaaattttgg cccttttgtc aaggcttgaa gccaaagggca agggaatcct 180
gcaacaccac caggtggttg cagagtttga agaaatccct gaggagagca gaaagaaact 240
cca 243

<210> 2297
<211> 244
<212> DNA
<213> Glycine max

<400> 2297

cttcttcttt tacgttcatt ctgttttcat agtgaggatc ttctgaagaa atggcaaatc 60
accctttgac acactctcac tctttccgcg agaggtttga tgaaactctc actggtcaca 120
ggaatgaaat tttggccctt ttgtcaaggc ttgaagccaa gggcaaggga atcctgcaac 180
accaccaggt ggttgcagag tttgaagaaa tccctgagga gagcagaaag aaactccaag 240
gtgg 244

<210> 2298
<211> 281
<212> DNA
<213> Glycine max

<220>
<221> unsure
<222> (1)..(281)
<223> unsure at all n locations

<400> 2298

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 tggcaaatca tcctttgaca cactctcact gctttccgcg agaggtttga tgaaactctc 120
 actggtcaca ggaacganat tntggncctt ctgtcaaggc ttgaagccaa gggcaaggga 180
 tcctgcnaca tcaccaagtg gttgcagagt ttgaagngat ccctgaggag agnaganacn 240
 natcccagga tgggtgtcttt ggagaagtnt tgagatccac a 281

<210> 2299
 <211> 268
 <212> DNA
 <213> Glycine max

<400> 2299

attttcccct tcaacccttc cttttttgcg ttcattctgt tttcatagt acgtacttct 60
 gatgaaatgg caaatcatcc tttgacacac tctcactctt tccgcgagag gtttgattta 120
 actctcactg gtcacaggaa cgaaattttg gtccttctgt caaggcttga agccaagggc 180
 tagggaatcc tgcaacatca ccaagtgggt gcagagtttg aagaaatccc tgaggagagc 240
 agaaagaaac tccaagatgg tgtctttg 268

<210> 2300
 <211> 346
 <212> DNA
 <213> Glycine max

<400> 2300

ctcattctat tttcatagt acgaacttct gaagaaatgg caaatcatcc tttgacacac 60
 tctcactctt tccgcgagag gtctgatgaa actctcactg gtcacaggaa cgaaattcta 120
 gcccttctgt caagagctga acccaagggc aagggaatcc tgcaacatca ccaagtgggt 180
 gcagagtttg acgaaatccc tgaggcgagc agaaagaaac tccaagatga tgtctttcga 240
 gcaattttga gatccacaca ggaagccata atgctaccac catttgtagc tcttgctgtt 300
 cgaccatggc ctcgtgtatg ggactatctg cgtgtgaatg tgcaca 346

<210> 2301
 <211> 245
 <212> DNA
 <213> Glycine max

<400> 2301

gaagaaatgg caaatcatcc ttgacacac tctcactctt tccgcgagag gtttgatgaa 60

actctcactg gtcacaggaa cgaaattttg gcccttctgt caaggcttga agccaagggc 120

aagggaatcc tgcaacatca tcaagtgggt gcagagtttg aagaaatccc tgaggagagc 180

agaaagaaac tccaagatgg tgtctttgga gaagttttga gatccacaca ggaagccata 240

gtgct 245

<210> 2302

<211> 233

<212> DNA

<213> Glycine max

<400> 2302

ttcccccttca ccccttcctt ttttgcggtc attctgtttt catagtgacg aacttctgaa 60

gaaatggcaa atcatccttt gacacactct cactctttcc gcgagagggt tgatgaaact 120

ctcactgggtc acaggaacga aattttggcc cttctgtcaa ggcttgaagc caagggcaag 180

ggaatcctgc aacatcacca agtggttgca gagtttgaag aaatccctga gga 233

<210> 2303

<211> 262

<212> DNA

<213> Glycine max

<220>

<221> unsure

<222> (1)..(262)

<223> unsure at all n locations

<400> 2303

attctgtttt catagtgacg aacttctgaa gaaatggcaa atcatccttt gacacactct 60

cactctttcc gcgagagggt tgatgtanat ctcactgggtc acaggaacga aattttggcc 120

cttctgtcaa ggcttgaagc caagggcaag ggaatcctgc aacatcacca agtggttgca 180

gagtttgaag aaatccctga ggagagcaga aagaaactcc aagatgggtgt ctttggagaa 240

gttttgagat ccacacaaca ta 262

<210> 2304

<211> 260

<212> DNA
 <213> Glycine max
 <400> 2304
 ttcacccctt ccttttttgc gtacattctg ttttcatagg cttctttttt ctcttggtgc 60
 agtgacgaac ttctgaagat atggcaaate atcctttgac acactctcac tctttccgcg 120
 agaggtttga tggaactctc actggtcaca ggaacgaaat tttggccctt ctgtcaaggc 180
 ttgaagccaa tggttaaggga atcctgcaat atcatcaagt ggttgagag tttgaagaac 240
 atccctaacg agagcagaaa 260

<210> 2305
 <211> 249
 <212> DNA
 <213> Glycine max
 <400> 2305
 cccttccttt tttgcgttca ttctgttttc atagtgaaga acttctgaag aaatggcaaa 60
 tcatcctttg acacactctc actctttccg cgagagggtt gatgaaactc tcaactggtca 120
 caggaacgaa attttggccc ttctgtcaag gcttgaagcc aagggaagg gaatcctgca 180
 acatcaccaa gtggttgag agtttgaaga aatccctgag gagagcagaa agaaactcca 240
 agatggtgt 249

<210> 2306
 <211> 265
 <212> DNA
 <213> Glycine max
 <400> 2306
 ttgcaccctg cctgttttgc gtgcattctg ttttcatagt gacgaacttc tggagaaatg 60
 gcaaatactc ctttgacaca ctctcactct ttccgcgaga ggtttgatga gactctcact 120
 ggtcacatga acgagattat tgcccttctg tcaaggcttg aagccaagg caagggaatc 180
 ctgcaacatc accaagtggg tgcagagttt gaagaaatcc ctgaggagag cagaaagaga 240
 ctccgagatg gtgccttggg gaagt 265

<210> 2307
 <211> 255

<212> DNA
 <213> Glycine max
 <400> 2307
 ccccttcacc ccttcttctt ttacgttcat tctgttttca tagtgaggat cttctgaaga 60
 aatggcaa at caccctttga cacactctca ctctttccgc gagaggtttg atgaaactct 120
 cactggtcac aggaatgaaa ttttggccct tttgtcaagg cttgaagcca agggcaaggg 180
 aatcctgcaa caccaccagg tggttgcaga gtttgcagaa atccctgagg agagcagaaa 240
 aaactccaag gtggt 255

<210> 2308
 <211> 157
 <212> DNA
 <213> Glycine max
 <400> 2308
 cactctcact ctttccgcga gaggtttgat gtaactctca ctggtcacag gaatgaaatt 60
 ttggcccttt tgtcaaggct tgaagccaag ggcattgggaa tccttcaaca ccaccagggtg 120
 gttgcagagt ttgaagaaat ccctgaggag agcagaa 157

<210> 2309
 <211> 236
 <212> DNA
 <213> Glycine max
 <400> 2309
 cttcaccctt tccttttttg cgttcattct gttttcatag tgacgaactt ctgaagaaat 60
 ggcaa atcat cctttgacac actctcactc tttccgcgag aggtttgatg aaactctcac 120
 tggtcacagg aacgaaat tggcccttct gtcaaggctt gaagccaagg gcaagggaat 180
 cctgcaacat caccaagtgg ttgcagagtt tgaagaaatc cctgaggaga gcagaa 236

<210> 2310
 <211> 312
 <212> DNA
 <213> Glycine max
 <220>
 <221> unsure
 <222> (1) .. (312)

<223> unsure at all n locations

<400> 2310

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gctccgcatt  cggtcgcagc  atatacgttc  attcactgnt  catagtgagg  atcctctgaa   60
gaaatggcaa  ctcacccttt  gacacactca  cactccttcc  gcgagaggta  tgatccaact  120
ctcactggtc  acaggaatgc  aatcatggcc  ctaatgtcca  ggcttgaagc  caagggcaag  180
ggcatcctgc  aacaccacca  ggtggttgca  gagtttgaag  aaatccctga  ggagagcaga  240
aagacactcc  aaagtgggtg  ctttggagaa  gttttgacct  ctacacatga  agccatcccg  300
ctgccaccat  tt                                     312
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<210> 2311

<211> 147

<212> DNA

<213> Glycine max

<400> 2311

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ccccttcacc  ctttcttctt  ttacgttcat  tctgttttca  tagtgaggat  cttctgaaga   60
aatggcaaat  caccctttga  cacactctca  ctctttccgc  gagaggtttg  atgaaactct  120
cactggtcac  aggaatgaaa  ttttggc                                     147
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<210> 2312

<211> 241

<212> DNA

<213> Glycine max

<400> 2312

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ttcccccttca  ccccttcctt  ttttgcggtc  attctgtttt  catagtgacg  aacttctgaa   60
gatatggcaa  atcatccttt  gacacactct  cactctttcc  gcgagagggt  tgatgaaact  120
ctcactggtc  caggaacgaa  attttggccc  ttctgtcaag  gcttgaagcc  aagggcaagg  180
gaatcctgca  acatcaccaa  gtggttgag  agtttgagga  atccctgag  gaagccaaaa  240
a                                                     241
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<210> 2313

<211> 206

<212> DNA

<213> Glycine max

<400> 2313

cccttcttct tttgcgttca ttctgttttc atagtgatga tcttcttgaa taatggcaaa 60

tcaccctttg acacactctc actctttccg cgagagggtt gatgaaactc tcaactggtca 120

caggaatgaa attttgggcc gtttgtcaat gcttgaagcc aacggcatcg gaatcctgta 180

ccactaccag gtggatgaat attttg 206

<210> 2314

<211> 299

<212> DNA

<213> Glycine max

<400> 2314

ccctactctg aaaagcagaa cagacttaca gccctgcatg gttcaattga acagctatta 60

tttgctcctg agcagactga tgaatacatt ggtttattga aagacaagtc aaagcccata 120

attttctcca tggcaaggct agacagagta aaaaacataa ctggattggt agaaagcttt 180

ggtaagaaca gcaaattgag ggaactggtc aaccttgtca tagtagctgg ttatattgat 240

gtaaagaagt ccagtgcag agaagaaatt gcagaaattg agagatgcat gagctcatg 299

<210> 2315

<211> 271

<212> DNA

<213> Glycine max

<400> 2315

gcagaacagg cttacagccc tgcattggtc aattgaaaag ctgttatttg atcctgagca 60

gactgatgaa tacattggtt cattgaaaga caagtcaaag ccataattt tctccatggc 120

aaggctagac agagtgaaaa acataactgg attggtagaa tgctttggta agaacagcaa 180

attgagggaa ctggtcaacc ttgttgtagt agctggttat attgatgtaa agaagtcgag 240

tgacagagca gaaatggcag aaattgagaa g 271

<210> 2316

<211> 235

<212> DNA

<213> Glycine max

<400> 2316

gtttattgaa agacaagtca aagcccataa ttttctccat ggcaaggcta gacagagtaa 60
 aaaacataac tggattggta gaaagctttg gtaagaacag caaattgagg gaactgggtca 120
 accttgatcat agtagctggg tatattgatg taaagaagtc cagtgcacaga gaagaaattg 180
 cagaaattga gaagatgcat gagctcatga aaaagtataa cttagttggg gattt 235

<210> 2317
 <211> 241
 <212> DNA
 <213> Glycine max

<400> 2317

gcagaacagg cttacagccc tgcattgggt aattgaaaag ctgttatttg atcctgagca 60
 gactgatgaa tacattgggt cattgaaaga caagtcaaag cccataattt tctccatggc 120
 aaggctagac agagtgaaaa acataactgg attggtagaa tgctttggta agaacagcaa 180
 attgagggaa ctgggtcaacc ttgtttagt agctgggttat attgatgtaa aaagtcgagt 240
 g 241

<210> 2318
 <211> 261
 <212> DNA
 <213> Glycine max

<400> 2318

agtatgagag ccacgctggg tttactcttc ctgggctcta tagggttgtc catggcattg 60
 atgtttttga tcccaagttc aatattgtct ctctgggagc tgatatgtca atatatttcc 120
 cctactctga aaagcagaac agacttacag cctgcatgg ttcaattgaa cagctattat 180
 ttgctcctga gcagactgat gaatacattg gtttattgaa agacaagtca aagcccataa 240
 ttttctccat ggcaaggcta g 261

<210> 2319
 <211> 258
 <212> DNA
 <213> Glycine max

<400> 2319

atcaccagta cataccagga gattgctgga acgaaaaata ctgttggtcca gtatgagagc 60

cacgctgggtt ttactcttcc tgggctctat agggttgtcc atggcatgat gtttttgatc 120
ccaagttcaa tattgggtctc tcctgggagc tgatatgtca atatatttcc cctactctga 180
aaagcagaac agacttacag ccctgcatgg ttcaattgaa cagctattat ttgctcctga 240
gcagactgat gaatacat 258

<210> 2320
<211> 229
<212> DNA
<213> Glycine max

<400> 2320

acctaatagc catgaataat gctgatttta tcatcaccag tacataccag gagattgcag 60
gaacgaaaaa tactgttggc cagtatgaga gccacgctgg ttttactctt cctgggctct 120
atagggttgt ccatggcatt gatgtttttg atcccaagtt caatattgtc tctcctggag 180
ctgatatgtc aatatatttc ccctactctg aaaagcagaa cagacttac 229

<210> 2321
<211> 222
<212> DNA
<213> Glycine max

<400> 2321

tgctgatttt atcatcacca gtacatacca ggagattgca ggaacgaaaa atactgttgg 60
ccagtatgag agccacgctg gttttactct tcctgggctc tatagggttg tccatggcat 120
tgatgttttt gatcccaagt tcaatattgt ctctcctgga gctgatatgt caatatattt 180
cccctactct gaaaagcaga acagacttac agccctgcat gg 222

<210> 2322
<211> 252
<212> DNA
<213> Glycine max

<400> 2322

cgcacttgag ttttataaat aatgtccgtg attttagtat ttttaccttc tctttctctc 60
ctcttatoga aagcttaatc acaaaaactaa aatcacggac attatttata aaactcaagt 120
gcgacaaaact ccaaatgaga aagaaaaagc cggtgatttt agttttgtga ttaagctttc 180

gataagaagt gagaaagaga aggaaaaaaaa aagttgcttt tgtttatgta cgtaccatga 240
 tttggacctt aa 252

<210> 2323
 <211> 109
 <212> DNA
 <213> Glycine max

<400> 2323

cgcacttgag ttttataaat aatgtccgtg attttagttt tgtcgccttc tctttctctc 60
 ctcttatcga aagcgtaatc acaaaaactaa aatcacggac attatttat 109

<210> 2324
 <211> 262
 <212> DNA
 <213> Glycine max

<400> 2324

cataatttga ttgatgaact tgacaacatc cctggcgatg atcaagcaat agtggatctt 60
 aaaaatggtc cctttgggtga aatcgtcaag tctgcaaagg aagccatagt tttgcctcct 120
 tttgtggcaa tagcagttcg tccaagacct ggtgtttggg aatatgtccg tgttaatgtc 180
 tctgagctca gcgtggagca attaagtgtt tctgaatatc tcagcttcaa ggaagaactt 240
 gtagatggaa agattaatga ca 262

<210> 2325
 <211> 272
 <212> DNA
 <213> Glycine max

<400> 2325

ctctcatgct tttttccact tgcaaaactcc aaattcactc tgacagtttt tgcagctaata 60
 taagaagaac ttaacagaca tataaacata gtgatcggtta tgtctacgca accaaagctt 120
 ggtcggatcc ccagtatcaa gaccgagttg aagacactct ctctgctcac cgtaacgaac 180
 tcatttctct cctctccagg tatgtggctc aggggagatg gattttgcaa ccccataatt 240
 tgattgatga acttgacaac atccctggcg at 272

<210> 2326

<211> 264
 <212> DNA
 <213> Glycine max

 <400> 2326

 ctttaactca tgctttttcc cacttgcaaa ctccaaattc actctctgac agtttttgca 60
 gccaatatag aagaacttaa cagacatata aacatagtga tcgtcatgtc tacgcaacca 120
 aagcttggtc ggatttccag tatcagagac cgagttgaag acactctctc tgctcaccgt 180
 aacgaactca tttctctcat ctccaggtat gtggctcagg ggaaagggat tttgcaaccc 240
 cataatttga ttgatgaact tgac 264

<210> 2327
 <211> 189
 <212> DNA
 <213> Glycine max

 <400> 2327

 gctttttccc acttgcaaac tccaaattca ctctctgaca gtttttgacg ctaattaaga 60
 agaacttaac agacatataa acatagtgat cgatcatgtc acgcaaccaa agcttggtcg 120
 gatttccagt atcagagacc gagttgaaga cactctctct gctcaccgta acgaactcat 180
 ttctctcct 189

<210> 2328
 <211> 279
 <212> DNA
 <213> Glycine max

 <400> 2328

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 tgaatgacaa agttcaaagc ctggattctc tccaacatgt tttgagaaaa gcagaagagt 120
 atctgatttc agttgctcct gaaacaccct actcggaatt cgagaacaga ttccgggaga 180
 ttggctctga gagggggtgg ggtgacactg ccgagcgtgt cctcgagatg atccagcttc 240
 tcctggacct tcttgaggca cctgaccctt gcaccctcg 279

<210> 2329
 <211> 286
 <212> DNA

<213> Glycine max
 <400> 2329

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gagagtatgc agccactgct tgaattcctc aggcttcaca gttataaggg aaagaccatg 60
atgttgaatg acaaagttca aagcctggat tctctccagc atgttttgag aaaagcagaa 120
gagtatctga cttcagttgc tcctgaaaca ccctactcag aattcgagaa caaattccgg 180
gaaattgggt tggagagggg gtggggtgac atcgccgagc gtgtcctcga gatgatccag 240
cttctcttgg accttcttga ggcacccgac ccttgctacc tcgaga 286
  
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<210> 2330
 <211> 269
 <212> DNA
 <213> Glycine max
 <400> 2330

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agcaactctg aacaagtcca ttggaaatgg cgtcgagttc ctcaaccgcc acctttcggc 60
caagctcttc catgacaagg agagcatgca gccactgctt gagttcctca ggcttcacag 120
ttataaggga aagaccatga tgttgaatga caaagttcaa agcctggatt ctctccaaca 180
tgttttgaga aaagcagaag agtatctgat ttcagttgct cctgaaacac cctactcgga 240
attcgaaaac agattccggg agattggtc 269
  
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<210> 2331
 <211> 267
 <212> DNA
 <213> Glycine max

<220>
 <221> unsure
 <222> (1)..(267)
 <223> unsure at all n locations

<400> 2331

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gcatgcagcc actgcttgag ttccctcaggc ttcacagtta taagggaag accatgatgt 60
tgaatgacaa agttcaaagc ctggattctc tccaacatgt tttgagaaaa gcagaagagt 120
atctgatttc agttgctcct gaaacaccct aactcggaat tcgagaaaca gattccggga 180
gattggctctg gagagggggg ggggtgacat gncgancgtg tcctcgagat gatccagttc 240
tctggacttc ttgangcact gaccttg 267
  
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<210> 2332
 <211> 152
 <212> DNA
 <213> Glycine max
 <400> 2332

tgcagccact gcttgaattc ctcaggcttc acagttataa gggaaagacc atgatgttga 60
 atgacaaagt tcaaagcctg gattctctcc agcatgtttt gagaaaagca gaagagtatc 120
 tgacttcagt tgctcctgaa acaccctact ca 152

<210> 2333
 <211> 271
 <212> DNA
 <213> Glycine max
 <400> 2333

ctctccaaca tgttttgaga aaagcagaag agtatctgat ttcagttgct cctgaaacac 60
 cctactcgga attcgagaac agattccggg agattggtct ggagaggtgg tggggtgaca 120
 ctgccgagcg tgcctcgag atgatccagc ttctcctgga ctttcttgat gcacctgacc 180
 cttgcaccct cgagacattc cttggaagag tccctatggt ctataatggt gttacctttc 240
 tccccatggt tactttgccc aagataatgt c 271

<210> 2334
 <211> 265
 <212> DNA
 <213> Glycine max
 <400> 2334

ctccaacatg tgttgagaaa agcagaagag tatctgattt cagttgctcc tgaaacaccc 60
 tactcggaat tcgagaacag attccgggag attggtctgg agaggggggtg ggggtgacact 120
 gccgagcgtg tcctcgagat gatccagctt ctcttgagacc ttcttgagge acctgaccct 180
 tgcaccctcg aatcattcct tggaagagtc cctatggtct tcaatgttgt tatcctttct 240
 ccccatggtt actttgccc agata 265

<210> 2335
 <211> 243

<212> DNA
 <213> Glycine max
 <400> 2335
 tgctgagatc attgagcatg gtatatacagg attccacatt gatccttatac atcctgatca 60
 agcttcagag ctattgggtg aatTTTTCCA aaagagcaag gaggaccag accattggaa 120
 gaaaatatct aatgggtggtc ttcaaagaat ttatgaaagg tacacttgga agatttattc 180
 tgaaaggctt atgacctttg cgggagttta tagtttctgg aaatacgttt ccaaattaga 240
 gag 243

<210> 2336
 <211> 251
 <212> DNA
 <213> Glycine max
 <400> 2336
 gctacttgcc atgggtggtc ggctgagatc attgagcatg gtatatacagg attccacatt 60
 gatccttatac accctgatca agcttcacag ctattagttg aatTTTTCCA aaagagcaag 120
 gaggacccaa gccattggaa gaaaatatct gatgggtggtc ttcaaagaat ttatgaaagg 180
 tacacgtgga agatttattc cgaaaggctt atgactttgg cgggagttta tagtttctgg 240
 aaatacgttt c 251

<210> 2337
 <211> 244
 <212> DNA
 <213> Glycine max
 <400> 2337
 ggagttaccc agtgcacaat cgcgcacatgca cttgagaaga caaaatatcc agattcagat 60
 ttatattgga agaaatttga ggataaatac cacttttcat gccaatctac tgctgaccta 120
 atagccatga ataatgctga ttttataatc accagtacat accaggagat tgcaggaacg 180
 aaaatactgt tggccagtat gagagtcaca ctggttttac tcttctctggg ctctataggg 240
 ttgt 244

<210> 2338
 <211> 241

<212> DNA
 <213> Glycine max
 <400> 2338
 gcacaatcgc gcatgcactt gagaagacaa aatatccaga ttcagattta tattggaaga 60
 aatttgagga taaataccac ttttcatgcc aatttactgc tgacctata gccatgaata 120
 atgctgattt tatcatcacc agtacatacc aggagattgc aggaacgaaa aatactgttg 180
 gccagtatga gagccacgct ggttttactc ttcttgggct ctatagggtt gtccatggca 240
 t 241

<210> 2339
 <211> 265
 <212> DNA
 <213> Glycine max
 <400> 2339
 cttctttgag aagtgcagc ttgacccaac tcaactgggac aagatctcaa aggctggtct 60
 ccagcgtatt gaagagaagt acacatggca aatttactct cagaggcttc tcaactctac 120
 cgggtgtctat ggcttctgga agcatgtgtc taaccttgac cgccgtgaga gccgccgcta 180
 tctcgagatg ttctatgctc tcaagtaccg caaattggct gagtctgtgc ccttgctgc 240
 tgagtaaact gaggataaag agttg 265

<210> 2340
 <211> 258
 <212> DNA
 <213> Glycine max
 <400> 2340
 ggctggtctc cagcgtattg aagagaagta cacatggcaa atttactctc agaggcttct 60
 cactctcacc ggtgtctatg gcttctggaa gcatgtgtct aaccttgacc gccgtgagag 120
 ccgccgctat ctcgagatgt tctatgctct caagtaccgc aaattggctg agtctgtgcc 180
 ccttgctgct gagtaaactg aggataaaga gttggataaa gaaatggagg aaccggcttt 240
 ttctttgtac attggagt 258

<210> 2341
 <211> 276

<212> DNA
 <213> Glycine max
 <400> 2341
 gaagtcttga gatctacaca ggaagccata gttttgccac catgggttgc tctggctgtt 60
 cgtccaagac ctgggtgtgtg ggagtacctg agagtgaatg tgcacgctct tgttggtgag 120
 gagttgcaac ctgctgagta cctgcacttc aaggaagaac ttgttgacgg aagttctaata 180
 ggcaactttg tgcttgagtt ggactttgaa ccattcaatg cagccttccc ccgccaacc 240
 cttacaagt caattggaaa tgggtgtgcaa ttcttc 276

<210> 2342
 <211> 284
 <212> DNA
 <213> Glycine max
 <220>
 <221> unsure
 <222> (1)..(284)
 <223> unsure at all n locations
 <400> 2342

caggaagcna tagttttgcc accatgggtt gctctggctg ttcgtccaag acctgggtgtg 60
 tgggagtacc tgagagtga tgtgcacgct cttgttggtg aggagtgtgca acctgctgag 120
 tacctgcact tcaaggaaga anttggtgac ggaagttcta atggcaactt tgtgcttgag 180
 ttggatcttg aaccattgca atgcagcctt cccccgcna antncttaac aagtcantgg 240
 aaatggtgtg caatcctcaa cgtcacctt ctgccaaact ctcc 284

<210> 2343
 <211> 245
 <212> DNA
 <213> Glycine max
 <220>
 <221> unsure
 <222> (1)..(245)
 <223> unsure at all n locations
 <400> 2343

gaaaaagtat aacttagttg gtgattntcg ttggattgct gcccaaacia atagggcacg 60
 taatggggag ctgtatcgct acatagcaga cacacaaggt gctttcgttc agcctgcttt 120

ctatgaagct tttggactta cagttgtgga ggccatgaat tgtggactcc ccacttntgc 180
tacttgccat ggtggtcggg ctgagatcat tgagcatggt atatcaggat tccacattga 240
tcctt 245

<210> 2344
<211> 191
<212> DNA
<213> Glycine max

<400> 2344

ggtgctttcg ttcagcctgc tttctatgaa gcttttggac ttacagttgt ggaggccatg 60
aattgtggac tccccacttt tgctacttgc catggtggtc cggctgagat cattgagcat 120
ggtatatcag gattccacat tgatccttat caccctgac aagcttcaca gctattagtt 180
gaatttttcc a 191

<210> 2345
<211> 257
<212> DNA
<213> Glycine max

<220>
<221> unsure
<222> (1)..(257)
<223> unsure at all n locations

<400> 2345

ctctccatgg ttactttgcc caagataatg tcttggggta cctgacactg gtggacaggt 60
tgtttacatc ttggatcgag ttcgtgcctt ggagaatgag atgctcaacc gcacnagaa 120
acaaggcctt gatatcacc ctcgtattct cattattact cgtcttctcc ctgatgcagt 180
aggaactacc tgtggccaac gtctagagag gtatatgata ctgaatattg tgacattctc 240
cgagttcctt tcagaac 257

<210> 2346
<211> 218
<212> DNA
<213> Glycine max

<400> 2346

gtcttgggat accctgacac tgggtggacag gttgtttaca tcttggatca agttcgtgcc 60
 ttggagaatg agatgctcaa ccgcatcaag aaacaaggcc ttgatatac ccctcgtatt 120
 ctcattatca ctcgtcttct ccctgatgca gtaggaacta cctgtggcca acgtctagag 180
 agggatatatg atactgaata ttgtgacatt ctcagagt 218

<210> 2347
 <211> 253
 <212> DNA
 <213> Glycine max

<400> 2347

ggattccttg cagcccttgc ttgatttct ccgagctcac aaatacaagg gccatgctct 60
 gttgttaaata gatagaatac aaaccatttc caaacttcag tctgcattgg ccaaggctga 120
 ggattatctc tctaagcttg cacatgatac actctattca gagtttgaat atgtattgca 180
 aggcattgggt tttagagagag gttgggggtgc tactgctgaa cgggtattgg agatgatgca 240
 tctgctattg gat 253

<210> 2348
 <211> 311
 <212> DNA
 <213> Glycine max

<400> 2348

tcgaacgaga tgaagaagat gtacggcctg atcgagacct acaagttgaa cggccaattc 60
 agatggattt catcgagat gaaccgtgtg aggactggag agctctaccg cgtgatctgc 120
 gacaccaggg gtgctttcgt gcagcctgct gtatacgagg cttttggttt gacagtggtt 180
 gaggccatga cttgcggctt gccaacattc gccacatgca atgggtggcc tgctgagatc 240
 attgtgcacg gcaagtctgg cttccacatt gacccttacc atgggtgaccg tgctgctgat 300
 ctcttggttg a 311

<210> 2349
 <211> 342
 <212> DNA
 <213> Glycine max

<400> 2349

tgagctttc	gtgcagccgg	ctatatacga	ggcttttcgt	ttgacagtgg	ttgaggccat	60
gacttggtggg	ttgccaacat	tcgccacatg	caatggtggt	cctgctgaga	tcattgtgca	120
tggcaagtct	ggcttccaca	ttgaccetta	ccatggtgac	cgtgctgctg	atctccttgt	180
tgacttcttt	gagaagtgca	agcttgaccc	aaccactgg	gaaacaatct	caaaggtgg	240
tctccagcgt	attgaagaga	agtacacatg	gcaaatttac	tcacagaggc	ttctcactct	300
cactggtgtc	tatggcttct	ggaagcatgt	gtctaacctt	ga		342

<210> 2350
 <211> 305
 <212> DNA
 <213> Glycine max

<220>
 <221> unsure
 <222> (1)..(305)
 <223> unsure at all n locations

<400> 2350

gcactccaac	atgttctgag	gaaagctgag	gagtatctgg	gcacagtgcc	tnctgaaact	60
ccctactcag	aatttgagcn	caagttccag	gagattngtt	tggngagagg	gtgggggtgac	120
aacgcggagg	tgtgccttga	gtcaattcaa	cttctcttgg	atcttcttga	ggccccctgac	180
ccgtgcaccc	ttgagacttt	ccttggaaga	atccctatgg	tgttcaatgt	tgttattcnt	240
tctccccatg	gttactttgc	ccaagataat	gtcttnggat	accctgacac	tggtggccag	300
gttgt						305

<210> 2351
 <211> 277
 <212> DNA
 <213> Glycine max

<400> 2351

ctgttgga	gtacgaatct	cacacagcct	tcacccttcc	tggactctac	cgcgttgtgc	60
atggtattga	tgtctttgat	ccaaaattca	acattgtctc	ccctggagct	gatcaaacca	120
tttacttccc	ccacactgaa	accagccgta	ggttgacatc	cttcaccct	gaaatcgaag	180
aactccttta	cagctcagtg	gagaatgaag	aacacatatg	tgtgctgaag	gaccgcagca	240
agccaattat	cttcaccatg	gcaagggttg	atcgagt			277

<210> 2352
 <211> 278
 <212> DNA
 <213> Glycine max
 <400> 2352
 caatgttggt attctttctc cccatgggta ccctgcccac gataatgtct tgggataccc 60
 tgacactggg gccaggttg ttacatctt ggatcaagtt cgtgctttgg agaagagat 120
 gctccatcgc attaacgac aaggattgga cattgttctt cgtattctca ttatcaccgc 180
 tcttctcccc gatgcagtag gaactacttg tggccaacgt cttgagaagg tgttcggaac 240
 tgagcactcc cacattcttc gagttccctt tagaactg 278

<210> 2353
 <211> 273
 <212> DNA
 <213> Glycine max
 <400> 2353
 gccatgaacc acacagattt cattatcacc agtaccttcc aggagattgc tggaagcaag 60
 gacactgttg gacagtacga atctcacaca gccttcaccc ttctgggact ctaccgcgtt 120
 gtgcatggta ttgatgtctt tgatccaaaa ttcaacattg tctccctgg agctgatcaa 180
 accatttact tccccacac tgaaaccagc cgtagggtga catccttcca ccctgaaatc 240
 gaagaactcc ttacagctc agtggagaat gaa 273

<210> 2354
 <211> 283
 <212> DNA
 <213> Glycine max
 <400> 2354
 caaattcaac attgtctccc ctggagctga tcaaaccatt tacttcccc aactgaaac 60
 cagccgtagg ttgacatctt tccaccctga aatcgaagaa ctctttaca gctcagtgga 120
 gaatgaagaa cacatatgtg tgctgaagga ccgcagcaag ccaattatct tcaccatggc 180
 aaggttggat cgagtgaaga acatcacagg acttgtggag tggtaggta agaacgcgaa 240
 ctgagggagc tgggtgaacct tgtggttggt gctggagaca gga 283

<210> 2355
 <211> 271
 <212> DNA
 <213> Glycine max

<220>
 <221> unsure
 <222> (1)..(271)
 <223> unsure at all n locations

<400> 2355

ggcttttggg ttgacagtgg ttgangccat gacttgccgc ttgccancnt tcgccacatg 60
 caatgggtggg cctgctgaga tcattgtgca cggcaagtct ggcttcacaca ttgaccctta 120
 ccatgggtgac cgtgctgctg atctccttgt tgacttcttt gagaagtgca agcttgaccc 180
 aactcactgg gacaagctct caaaggctgg tctccagcgt attgaagaga agtacacatg 240
 gcaaatttac tctcagaggc ttctcactct c 271

<210> 2356
 <211> 273
 <212> DNA
 <213> Glycine max

<400> 2356

ctgaaatcga agaactcctt tacagctcag tggagaatga agaacacata tgtgtgctga 60
 aggaccgcag caagccaatt atcttcacca tggcaagggt ggatcgagtg aagaacatca 120
 caggacttgt ggagtggtag ggtaagaacg cgaactgagg gagctggtag accttgtggg 180
 tgttgctgga gacaggagga aggagtcaaa ggacttgga gaaaaggccg agatgaagaa 240
 gatgtacggc ctgatcgaga cctacaagtt gaa 273

<210> 2357
 <211> 278
 <212> DNA
 <213> Glycine max

<400> 2357

atcaaaccat ttacttcccc cacactgaaa ccagccgtag gttgacatcc ttccaccctg 60
 aaatcgaaga actcctttac agctcagtgg agaatagaaga acacatatgt gtgctgaagg 120

accgcagcaa gccattatc ttcgccatgg caagggttga tcgagtgaag aacatcacag 180
gacttggtga gtggtacggt aagaacgca agctgagggg gctggtgaac cttgtggttg 240
ttgctggaga caggaggaag gagtcaaagg acttgga 278

<210> 2358
<211> 325
<212> DNA
<213> Glycine max

<400> 2358

aggagtcgaa ggacttgga gagaaggccg agatgaagaa gatgtatggc ctcatcgaga 60
cctacaagtt gaacggccaa ttcagatgga taccctctca gatgaaccgt gtgaggaacg 120
gagagctcta ccgtgtcatc tgtgacacaa ggggtgcctt tgtgcagcct gcagtttatg 180
aggccttttg gttgactgtg gttgaggcca tgacttggtg gttgccaacg tttgccacat 240
gcaatgggtg tcctgctgag atcattgtgc atggaaaatc tggttaccac attgatcctt 300
accatgggtg ccatgctgct gagat 325

<210> 2359
<211> 274
<212> DNA
<213> Glycine max

<400> 2359

ggccatactt ggaaacttac actgaggatg ttgctcatga gcttgccaaa gagttgcaag 60
gcaagccaga tctgattgtc ggaaactaca gtgatggaaa cattgttgcc tctttgttg 120
cacataaatt aggagtcact caggtaccat tgctcatgca cttgagaaga ccaaataccc 180
cgaatccgac atttactgga aaaaattgga agagagatac cacttctctt gccaatcac 240
agctgatcta tttgccatga accacacaga tttc 274

<210> 2360
<211> 276
<212> DNA
<213> Glycine max

<400> 2360

gccaatcac atggatttca tcgcagatga accgtgtgag gaatggagag ctctaccg 60

tgatctgcga caccaggggt gctttcgtgc agcctgctgt atacgaggct tttggtttga 120
 cagtgggttga ggccatgact tgcggcttgc caacattcgc cacatgcaat ggtggtcctg 180
 ctgagatcat tgtgcacggc aagtctggct tccacattga ccctaccatg gtgaccgtgc 240
 tgctgatctc ctgttgactt ctttgagaag tgcaag 276

<210> 2361
 <211> 267
 <212> DNA
 <213> Glycine max

<400> 2361

ccgatgcagt aggaactact tgtggccaac gtcttgagaa ggtgttcgga actgagcact 60
 cccacattct tcgagttcgc tttagaactg agaaggggaat tgttcgcaag tggatctcaa 120
 gattcgaagt ctggccctac ttggaaactt aactgagga tgttgccac gagcttgcca 180
 aagagttgca aggcaagcca gatctgattg ttggaaacta cagtgatgga aacattgtcg 240
 cttctttgtt ggcacataaa ttaggtg 267

<210> 2362
 <211> 263
 <212> DNA
 <213> Glycine max

<400> 2362

ccaagatgta aacaacctgg atcaagtctg tgctttggag aatgagatgc tccatcgcat 60
 taagcaacaa ggattggaca ttgttcctcg tattctcatt atcacccgtc ttctccccga 120
 tgcagtagga actacttgtg gccaacgtct tgagaagggtg ttcggaactg agcactccca 180
 cattcttoga gttcccttta gaactgagaa ggggaattgtt cgcaagtgga tctcaagatt 240
 cgaagtctgg ccctacttgg aaa 263

<210> 2363
 <211> 265
 <212> DNA
 <213> Glycine max

<400> 2363

actcagtgta ccattgctca cgcacttgag aagaccaa at accccgaatc cgacatttac 60

tggaaaaaat tgggaagagag ataccacttc tcttgccaat tcacagctga tctatttgcc 120
 atgaaccaca cagatttcat tacaagcagt accttccagg agattgctgg aagcaaggac 180
 actggttgac agtacgaatc tcacacagcc ttcaccttc ctggactcta ccgcgttggtg 240
 catggtattg atgtctttga tccaa 265

<210> 2364
 <211> 328
 <212> DNA
 <213> Glycine max

<400> 2364

gctcaaccgc atcaagaaac aaggccttga tatcaccctt cgtattctca ttattactcg 60
 tcttctccct gatgcagtag gaactacctg tggccaacgt ctagagaggg tatatgatac 120
 tgaatattgt gacattctcc gagttccttt cagaaccgaa aagggaattg ttgcgaaatg 180
 gatctcaaga ttggaagtct ggccatacct agagacttac actgaggatg ttgcccttga 240
 acttgccaag gagttgcaag ccaagccaga tctgatcggt ggaaactaca gtgatggaaa 300
 cattggtgcc tctttggttag cacataaa 328

<210> 2365
 <211> 340
 <212> DNA
 <213> Glycine max

<220>
 <221> unsure
 <222> (1)..(340)
 <223> unsure at all n locations

<400> 2365

ccatggttga ggccatgact tgcggcttgc caacattcgc cacatgcaat ggtggtcctg 60
 ctgagatcat tgtgcacggc nagtctggct tccacattga cccttaccat ggtgaccgtg 120
 ctgctgatct cctggtgact tctttgagaa gtgcaagctt gacccaactc actgggacaa 180
 gatctcaaag gctggtctcc agcgtattga agagaagtac acatggcaaa tttactctca 240
 gaggttctca tctcaacggt gtctatgggt ctggaagcat gtgtctaact tgaacgcgtg 300
 agancgcgta tctgagagtc tagtctcagt acgnaatggt 340

<210> 2366
 <211> 273
 <212> DNA
 <213> Glycine max

 <400> 2366

 catgagcttg ccaaagagtt gcaaggcaag ccagatctga ttgtcggaaa ctacagtgat 60
 ggaaacattg ttgcctcttt gttggctcat aaattaggag tcactcagtg taccattgct 120
 catgcacttg agaagaccaa ataccccgaa tccgacattt actggaaaaa attggaagag 180
 agataccact tctcttgcca attcacagct gatctatttg ccatgaacca cacagatttc 240
 attatcacca gtaccttcca ggagattgct gga 273

<210> 2367
 <211> 262
 <212> DNA
 <213> Glycine max

 <400> 2367

 gtggtacggt aagaacgcga actgagggag ctggtgaacc ttgtggttgt tgctggagac 60
 aggaggaagg agtcaaagga cttggaagaa aaggccgaga tgaagaagat gtacggcctg 120
 atcgagacct acaagttgaa cggccaattc agatggattt catcgagat gaaccgtgtg 180
 aggaatggag agctctaccg cgtgatctgc gacaccaggg gtgctttcgt gcagcctgct 240
 gtatacgagg ctttttggtt ga 262

<210> 2368
 <211> 263
 <212> DNA
 <213> Glycine max

 <400> 2368

 gtggtacggt aagaacgcga agctgaggga gctggtgaac cttgtggttg ttgctggaga 60
 caggaggaag gagtcaaagg acttggaaga aaaggccgag atgaagaaga tgtacggcct 120
 gatcgagacc tacaagttga acggccaatt cagatggatt tcatcgaga tgaaccgtgt 180
 gaggaatgga gagctctacc gcgtgatctg cgacaccagg ggtgctttcg tgcagcctgc 240
 tgtatacgag gcttttggtt tga 263

<210> 2369
 <211> 255
 <212> DNA
 <213> Glycine max

<400> 2369

ctggaaaata ttggaagaga gataccactt ctcttgccaa ttcacagctg atctatttgc 60
 catgaaccac acagatttca ttatcaccag taccttccag gagattgctg gaagcaagga 120
 cactgttgga cagtacgaat ctcacacagc cttcaccctt cctggactct accgcgttgt 180
 gcatggtatt gatgtctttg atccaaaatt caacattgtc tcccctggag ctgatcaaac 240
 catttacttc cccca 255

<210> 2370
 <211> 251
 <212> DNA
 <213> Glycine max

<400> 2370

cttgaagaa aaggccgaga tgaagaagat gtacggcctg atcgagacct acaagttgaa 60
 cggccaattc agatggattt catcgagat gaaccgtgtg aggaatggag agctctaccg 120
 cgtgatctgc gacaccaggg gtgctttcgt gcagcctgct gtatacgagg ctttttggtt 180
 gacagtgggt gaggccatga cttgcggctt gccaacattc gccacatgca atggtggtcc 240
 tgctgagatc a 251

<210> 2371
 <211> 262
 <212> DNA
 <213> Glycine max

<400> 2371

ccgtcttctc cccgctgcag taggaactac ttgtggccaa cgtcttgaga aggtgttcgg 60
 aactgagcac tcccacattc ttcgagttcc ctttagaact gagaagggaa ttgttcgcaa 120
 gtggatctca agattcgaag tctggcccta cttggaaact tacactgagg atgttgccca 180
 cgagcttgcc aaagagttga aggcaagcca gatctgattg ttggaaacta cagtgatgga 240
 aacattgtcg cttcttttgtt gg 262

<210> 2372
 <211> 277
 <212> DNA
 <213> Glycine max

 <400> 2372

 cttgaggccc ctgacccttg cacccttgag actttccttg gaagaattcc tatggtcttc 60
 aatgttgtca ttctttctcc ccatgggttac ttgcccgaag ataatgtctt gggccaccct 120
 gacactgggtg gccaggttgt ttacatcttg gatcaagttc gtgctttgga gaacgagatg 180
 ctccatcgca ttaagcaaca aggattggac attgtacctc gtattctcat tatcaccgtc 240
 ttctccccga tgcaatcgga actacttggtg gccaacg 277

<210> 2373
 <211> 255
 <212> DNA
 <213> Glycine max

 <400> 2373

 tggaatggag agctctaccg cgtgatctgc gacaccaggg gtgctttcgt gcagcctgct 60
 gtatacgagg cttttgggtt gacagtgggt gaggccatga cttgcggctt gccaacattc 120
 gccacatgca atggtgggtc tgctgagatc attgtgcacg gcaagtctgg cctccacatt 180
 gacgcttacc atggtgaccg tgctgctgat ctccttggtg acttctttga gaagtgcacg 240
 cttgacccaa ctcac 255

<210> 2374
 <211> 269
 <212> DNA
 <213> Glycine max

 <400> 2374

 ggagagctgt accgtgtgat ctgogacacc aaggagctt tcgtgcagcc ggctatatac 60
 gaggcttttg gtttgacagt ggttgaggcc atgacttggt gggtgccaac attcgccaca 120
 tgcaatgggtg gtcctgctga gatcattgtg catggcaagt ctggcttcca cattgaccct 180
 taccatgggtg accgtgctgc tgatctcctt gttgacttct ttgagaagtg caagcttgac 240
 ccaaccact gggaaacaat ctcaaaggc 269

<210> 2375
 <211> 258
 <212> DNA
 <213> Glycine max
 <400> 2375
 tgggggtgaca acgcagagcg tggttcttgag tcaattcaac ttctcttgga tcttcttgag 60
 gcccttgacc cttgcaccct tgagactttc cttggaagaa ttcttatggt cttcaatggt 120
 gtcattcttt ctcccatgg ttactttgcc caagataatg tcttgggata ccctgacact 180
 ggtggccagg ttgtttacat cttggatcaa gtctgtgctt tggagaacga gatgctccat 240
 cgcattaagc aacaagga 258

<210> 2376
 <211> 275
 <212> DNA
 <213> Glycine max
 <400> 2376
 ctggagctga tcaaaccatt tacttcccc aactgaaac caccgtacg ttgacatcct 60
 tccaccctga aatcgaagca ctctttaca gtcagtga gaatgaagaa cacatatgtg 120
 tgctgaagga ccgcagcaag ccaattatct tcaccatggc aagggtggat cgagtgaaga 180
 acatcacagg acttgtggag tggtaggta agaacgcga ctgagggagc tggatgaacct 240
 tgtggttggt gctggagaca ggaggaagga gtcaa 275

<210> 2377
 <211> 255
 <212> DNA
 <213> Glycine max
 <400> 2377
 tgaaatcgaa gaactccttt acagctcagt ggagaatgaa gaacacatat gtgtgctgaa 60
 ggaccgcagc aagccaatta tcttcaccat ggcaagggtg gatcgagtga agaacatcac 120
 aggacttggt gagtggtacg gtaagaacgc gaactcgagg gagctggtga accttggtgt 180
 tggtgctgga gacaggagga aggagtcaaa ggacttgga gaaaaggccg agatgaagaa 240
 gatgtacggc ctgat 255

<210> 2378
 <211> 289
 <212> DNA
 <213> Glycine max

 <400> 2378

 gtcggagaca ggaggaagga gtcgaaggac ttggaagaga aggccgagat gaagaagatg 60
 tacggcctga tcgctcccta caagttgaac gggcaattca gatggatttc atctcagatg 120
 aaccgtgtga ggaacggaga gctgtaccgt gtgatctgcg acaccaaggg agctttcgtg 180
 cagccggcta tatacgaggc ttttggtttg acagtggttg aggccatgac ttgtgggttg 240
 ccaacattcg ccacatgcaa tggtggtcct gctgagatca ttgtgcatg 289

<210> 2379
 <211> 256
 <212> DNA
 <213> Glycine max

 <400> 2379

 cgcgtgatct gcgacaccag gggtgctttc gtgcagcctg ctgtatacga ggctttttggt 60
 ttgacagtgg ttgaggccat gacttgcggc ttgccaacat tcgccacatg caatggtggt 120
 cctgctgaga tcattgtgca cggcaagtct ggcttccaca ttgaccctta ccatggtgac 180
 cgtgctgctg atctccttgt tgacttcttt ggaagtgcaa gcttgacca actcactggg 240
 acaagatctc aaaggc 256

<210> 2380
 <211> 273
 <212> DNA
 <213> Glycine max

 <400> 2380

 cttgagaagg tggttcggaac cgagcactcc cacattcttc gagttccctt tagaactgag 60
 aagggaattg ttcgtcagtg gatctcaaga ttcgaagtct ggccatactt ggaaacttac 120
 actgaggatg ttgctcatga gcttgccaaa gagttgcaag gcaagccaga tctgattgtc 180
 ggaaactaca gtgatggaaa cattgttgcc tctttgttgg cacataaatt aggagtcact 240
 cagtgtacca ttgctcatgc acttgagaag acc 273

<210> 2381
 <211> 254
 <212> DNA
 <213> Glycine max

 <400> 2381

 acatgagctt gccaaagagt tgcaaggcaa gccagatctg attgtcggaa actacagtga 60
 tggaaacatt gttgcctctt tgttggcaca taaattagga gtcactcagt gtaccattgc 120
 tcatgcactt gagaagacca aataccccga atccgacatt tactggaaaa aattggaaga 180
 gagataccac ttctcttgcc aattcacagc tgatctattt gccatgaacc acacagattt 240
 cattatcacc agta 254

<210> 2382
 <211> 245
 <212> DNA
 <213> Glycine max

 <400> 2382

 ttgacagtgg ttgaggccat gacttgcggc ttgccaacat tcgccacatg caatggtggt 60
 cctgctgaga tcattgtgca cggcaagtct ggcttccaca ttgaccctta ccatggtgac 120
 cgtgctgctg atctccttgt tgacttcttt gagaagtgca agcttgaccc aaccactgg 180
 gacaagagct caaaggctgg tctccagcgt attgaagaga agtacacatg gcaaatttac 240
 tctca 245

<210> 2383
 <211> 253
 <212> DNA
 <213> Glycine max

 <400> 2383

 gaatggagag ctctaccgcg tgatctgcga caccaggggt gctttcgtgc agcctgctgt 60
 atacgaggct tttggtttga cagtggttga cgccatgact tgcggcttgc caacattcgc 120
 cacatgcaat ggtggtcctg ctgagatcat tgtgcacggc aagtctggct tccacattga 180
 cccttaccat ggtgaccgtg ctgctgatct ccttgttgac ttctttgaga agtgcaagct 240
 tgaccaact cac 253

<210> 2384
 <211> 274
 <212> DNA
 <213> Glycine max

 <400> 2384

 cagatctgat tgttggaac tacagtgatg gaaacattgt cgcttctttg ttggcacata 60
 aattaggtgt cactcagtgt accattgctc acgcacttga gaagaccaa taccccaat 120
 ccgacattta ctggaaaaaa ttggaagaga gataccactt ctcttgccaa ttcacagctg 180
 atctatttgc catgaaccac acagatttca ttatcaccag taccttccag ggattgctgg 240
 aagcaaggac actgttggaac agtacgaatc tcac 274

<210> 2385
 <211> 254
 <212> DNA
 <213> Glycine max

 <400> 2385

 tcgaagaact cctttacagc tcagtggaga atgaagaaca catatgtgtg ctgaaagacc 60
 gcagcaagcc aattatcttc accatggcaa ggttggaatcg agtgaagaac atcacaggac 120
 ttgtggagtgt gtacggtaag aacgcgaact gagggagctg gtgaaccttg tggttgttgc 180
 tggagacagg aggaaggagt caaaggactt ggaagaaaag gccgagatga agaagatgta 240
 cggcctgatc gaga 254

<210> 2386
 <211> 249
 <212> DNA
 <213> Glycine max

 <400> 2386

 aaagactttg atgttgaatg acagaattca aaaccagat gcactccaac atgttctgag 60
 gaaagctgag gagtatctgg gcacagtgcc tcctgaaact ccctactcag aatttgagca 120
 caagttccag gagattgggtt tggagagagg gtggggtgac aacgcagagc gtgttcttga 180
 gtcaattcaa cttctcttgg atcttcttga ggcccctgac ccttgcaccc ttgagacttt 240
 ccttggaag 249

<210> 2387
 <211> 253
 <212> DNA
 <213> Glycine max

 <400> 2387

 caaaattcaa cattgtctcc cctggagctg atcaaaccat ttacttcccc cacactgaaa 60
 ccagccgtag gttgacatcc ttccaccctg aaatcgaaga actcctttac agctcagtgg 120
 agaatgaaga acacatatgt gtgctgaagg accgcagcaa gccaaattatc ttcaccatgg 180
 caaggttgga tcgagtgaag aacatcacag gacttgtgga gtggtacggg aagaacgcga 240
 actgagggag ctg 253

<210> 2388
 <211> 242
 <212> DNA
 <213> Glycine max

 <400> 2388

 gggaattggt cgcaagtgga totcaagatt cgaagtctgg ccctacttgg aaacttacac 60
 tgaggatggt gccacgagc ttgcaaaga gttgcaaggc aagccagatc tgattgttgg 120
 aaactacagt gatggaaaca ttgtcgcttc tttgttggca cataaattag gtgtcactca 180
 gtgtaccatt gtcacgcac ttgagaagac caaatacccc gaatccgaca tttactggaa 240
 aa 242

<210> 2389
 <211> 234
 <212> DNA
 <213> Glycine max

 <400> 2389

 gttgcaaggc aagccagatc tgattgttgg aaactacagt gatggaaaca ttgtcgcttc 60
 tttgttggca cataaattag gtgtcactca gtgtaccatt gtcacgcac ttgagaagac 120
 caaatacccc gaatccgaca tttactggaa aaaattggaa gagagatacc acttctcttg 180
 ccaattcaca gctgatctat ttgccatgaa ccacacagat ttcattatca ccag 234

<210> 2390
 <211> 239

<212> DNA
 <213> Glycine max
 <400> 2390
 accgcgttgt gcatggtatt gatgtctttg atccaaaatt caacattgtc tcccctggag 60
 ctgatcaaac catttacttc cccacactg aaaccagccg taggttgaca tccttcacc 120
 ctgaaatcga agaactcctt tacagctcag tggagaatga agaacacata tgtgtgctga 180
 aggaccgcag caagccaatt atcttcacca tggcaagggt ggatcgagtg aagaacatc 239

<210> 2391
 <211> 267
 <212> DNA
 <213> Glycine max
 <400> 2391
 attctccccg atgcaatcgg aactacttgt ggccaacgtc ttgagaaggt gttcggaacc 60
 gagcactccc acattcttcg agttcccttt agaactgaga agggaattgt tcgtcagtgg 120
 atctcaagat tcgaagtctg gccatacttg gaaacttaca ctgaggatgt tgctcatgag 180
 cttgccaaag agttgcaagg caagccagat ctgattgtcg gaaactacag tgatggaaac 240
 attgatgcct ctttgttggc acataaa 267

<210> 2392
 <211> 270
 <212> DNA
 <213> Glycine max
 <400> 2392
 cgtagtagct cggaatcgct cgagctcgag cggatgtctt tgatccaaaa ttcaacattg 60
 tctcccctgg agctgatcaa accatttact tccccacac tgaaaccage cgtaggttga 120
 catccttcca ccctgaaatc gaagaactcc ttacagctc agtggagaat gaagaacaca 180
 tatgtgtgct gaaggaccgc agcaagccaa ttatcttcac catggcaagg ttggaccgag 240
 tgaagaacat cacaggactt gtggagtgg 270

<210> 2393
 <211> 284
 <212> DNA
 <213> Glycine max

<400> 2393

acaggaggaa ggagtcgaag gacttggaag agaaggccga gatgaagaag atgtatggcc 60

tcacgcgagac ctacaagttg aacggccaat tcagatggat ctctctcag atgaaccgtg 120

tgaggaacgg agagctctac cgtgtcatct gtgacacaag gggcgccttt gtgcagcctg 180

cagtttatga ggcctttggg ttgactgtgg ttgaggccat gacttgtggg ttaccaacat 240

ttgccacatg caatgggtgg cctgctgaga tcattgtgca tgga 284

<210> 2394

<211> 247

<212> DNA

<213> Glycine max

<400> 2394

cgcgttggtgc atggtattga tgtctttgat ccaaattca acattgtctc ccctggagct 60

gatcaaacca ttacttccc ccacactgaa accagccgta ggttgacatc cttccaccct 120

gaaatcgaag aactccttta cactcagtgg agaatgaaga acacatatgt gtgctgaagg 180

accgcagcaa gcccaattatc ttcacatgg caaggttga tcgagtgaag aacatcacag 240

gacttgt 247

<210> 2395

<211> 247

<212> DNA

<213> Glycine max

<220>

<221> unsure

<222> (1)..(247)

<223> unsure at all n locations

<400> 2395

agagatacca cttctctcgc caattcacag ctgatctatt tgccatgaac cacacagatt 60

tcattatcan cagtaccttc caggagattg ctggaagcaa ggacactggt ggacagtacg 120

aatctcacac agcctcacc ttcttggaact ctaccgcgtt gtgcatggta ttgatgtctt 180

tgatccaaaa ttcaacattg tctccctgg agctgatcaa accatttact tccccacac 240

tgaaacc 247

<210> 2396
 <211> 279
 <212> DNA
 <213> Glycine max

 <400> 2396

 gggtgacctc cttccacccc gaaatcgaag aacttcttta cagctctgtg gagaatgaag 60
 aacacatatg cgtgctgaag gaccgcagca agccgattat cttcaccatg gcaagggttg 120
 accgtgtgaa gaacatcaca gactcgtgga gtggtacggt aagaacgcga actgaaggga 180
 gttggtgaac cttgtggttg ttgccggaga caggaggaag gagtcgaagg acttggaaga 240
 gaaggctgag atgaagaaga tgtacggcct gatcgagac 279

<210> 2397
 <211> 260
 <212> DNA
 <213> Glycine max

 <400> 2397

 cttgtggcga acgtcttgag aagggtgttcg gaactgagca ctcccacatt cttcgagttc 60
 gctttagaac tgagaaggga attgttcgca agtggatctc aagattcgaa gtctggccct 120
 acttggaac ttacactgag gatgttgccc acgagcttgc caaagagttg caaggcaagc 180
 cagatctgat tgttggaac tacagtgatg gaaacattgt cgcttctttg ttggcacata 240
 aattaggtgt cactcagtgt 260

<210> 2398
 <211> 210
 <212> DNA
 <213> Glycine max

 <400> 2398

 gtcggaaaact acagtgatgg aaacattggt gcctctttgt tggcacataa attaggagtc 60
 actcagtgta ccattgctca tgcacttgag aagaccaa at acccgaatc cgacatttac 120
 tggaaaaaat tggaagagag ataccacttc tcttgccaat tcacagctga tctatttgcc 180
 atgaaccaca cagatttcat tatcaccagt 210

<210> 2399

<211> 243
 <212> DNA
 <213> Glycine max

 <400> 2399

 catgagcttg ccaaagagtt gcaaggcaag ccagatctga ttgtcggaaa ctacagtgat 60
 ggaaacattg ttgcctcttt gttggcacat aaattaggag tcactcagtg taccattgct 120
 catgcacttg agaagaccaa ataccccgaa tccgacattt actggaaaaa attggaagag 180
 agataccact tctcttgcca attcacagct gatctatttg ccatgaacca cacagatttc 240
 att 243

<210> 2400
 <211> 257
 <212> DNA
 <213> Glycine max

 <400> 2400

 cgagatgctc catcgatta agcaacaagg attggacatt gtacctcgta ttctcattat 60
 caccctgtctt ctccccgatg caatcggaac tacttgtggc caacgtcttg agaagggtgt 120
 cggaaccgag cactcccaca ttcttcgagt tccctttaga actgagaagg gaattgttcg 180
 tcagtggatc tcaagattcg aagtctggcc atacttgga acttacactg aggatgttgc 240
 tcatgagctt gccaaag 257

<210> 2401
 <211> 286
 <212> DNA
 <213> Glycine max

 <400> 2401

 atgtgtattg aaggaccgca acaagccgat catcttcacc atggcaagac ttgaccgtgt 60
 gaagaacatc acgggacttg tggagtggta tggcaagaat gcgcgcctcc gcgagtgggt 120
 aaacctcgtg gtggtggccg gagacaggag gaaggagtcc aaggacttgg aagagaaggc 180
 cgagatgaag aagatgtatg gcctcatcga gacctacaag ttgaacggcc aattcagatg 240
 gatctcctct cagatgaacc gtgtgaggaa cggagagctc taccgt 286

<210> 2402

<211> 275
 <212> DNA
 <213> Glycine max

 <220>
 <221> unsure
 <222> (1)..(275)
 <223> unsure at all n locations

 <400> 2402

 cctccttcca ccccgaaatc gaagncactt ctttacagct ctgtggagaa tgaagaacac 60
 atatgcgtgc tgaaggaccg cagcaagccg attatcttca ccatggcaag gttggaccgt 120
 gtgaagaaca tcacaggact cgtggagtgg tacggtaaga acgcgaactg agggagttgg 180
 tgaaccttgt ggttggtgcc ggagacagga ggaaggagtc gaaggacttg gaagagaagg 240
 ctgagatgaa gaagatgtac ggcctgatcg agacc 275

 <210> 2403
 <211> 249
 <212> DNA
 <213> Glycine max

 <400> 2403

 gtggttggtg ccggagacag gaggaaggag tcgaaggact tggaagagaa ggccgagatg 60
 aagaagatgt acggcctgat cgagacctac aagttgaacg ggcaattcag atggatttca 120
 tctcagatga accgtgtgag gaacggagag ctgtaccgtg tgatctgcga caccaagggga 180
 gctttcgtgc agccggctat atacgaggct tttggtttga cagtggttga ggccatgact 240
 tgtggggttg 249

 <210> 2404
 <211> 271
 <212> DNA
 <213> Glycine max

 <400> 2404

 gaaccgagca ctcccacatt cttcgagttc cttttagaac tgagaaggga attgttcgtc 60
 agtggatctc caagattcga agtctggcca tacttggaaa cttacactga ggatgttgct 120
 catgagcttg ccaaagagtt gcaaggcaag ccagatctga ttgtcggaaa ctacagtgat 180
 ggaaacattg ttgcctcttt gttggcacat aaattaggag tcactcagtg taccattgct 240

catgcacttg agaagaccaa ataccccgaa t 271

<210> 2405
 <211> 251
 <212> DNA
 <213> Glycine max

<400> 2405

gataatgtct tgggataccc tgacactggt ggccagggtt tttacatctt ggatcaagtt 60
 cgtgcttttg agaacgagat gctccatcgc attaagcaac aaggattgga cattgtacct 120
 cgtattctca ttatcaccgc tcttctcccc gatgcaatcg gtactacttg tggccaacgt 180
 cttgagaagg tgttcggaac cgagcactcc cacattcttc gagttctctt tagaactgag 240
 aagggaattg t 251

<210> 2406
 <211> 247
 <212> DNA
 <213> Glycine max

<400> 2406

ggtgggggtga caacgcagag cgtgttcttg agtcaattca acttctcttg gatcttcttg 60
 aggccccctga cccttgacc cttgagactt tccttggaag aattcctatg gtcttcaatg 120
 ttgtcattct ttctcccat ggttactttg cccaagataa tgtcttggga taccctgaca 180
 ctggtggcca ggttggttac atcttggatc aagttcgtgc tttggagaac gagatgctcc 240
 atcgcat 247

<210> 2407
 <211> 282
 <212> DNA
 <213> Glycine max

<400> 2407

tgagaggggg tggggtgaca ctgccgagcg tgtcctcgag atgatccagc ttctcctgga 60
 ccttcttgag gcacctgacc cttgcaccct cgagacattc cttggaagag tccctatggt 120
 cttcaatggt gttatccttt ctcccatgg ttactttgcc caagataatg tcttgggata 180
 ccctgacact ggtggacagg ttgtttacat cttggatcaa gttcgtgcct tggagaatga 240

gatgctcaac cgcatcaaga aacaaggcct tgatatcacc cc

282

<210> 2408
<211> 309
<212> DNA
<213> Glycine max

<220>
<221> unsure
<222> (1)..(309)
<223> unsure at all n locations

<400> 2408

catcactgta gntccaaca ntcagatctg gaaacattgt tgctctttg ttagcacata 60
aattaggngt aactcagtgt accattgctc atgctctaga aaagaccaag taccctgagt 120
ctgacattta ctggaaanan tttgaagaga natatcattt ctcatgccaa tttactgctg 180
atctttttgc aatgaaccac acagacttta tcatcaccag cnccttccaa gagattgctg 240
gaagcaagga cactgtngga cagtatgaga gtcacactgc cttcaccctt ccangacttt 300
accgtgttg 309

<210> 2409
<211> 251
<212> DNA
<213> Glycine max

<400> 2409

ctggactcta ccgtgttggtg cacggcattg atgtctttga tccaaaattc aacattgtct 60
cccctggagc tgatcaaacc atttacttcc cccccaccga aactagccgt aggttgacct 120
ccttccaccc cgaaatcgaa gaacttcttt acagctctgt ggagaatgaa gaacacatat 180
gcgtgctgaa ggaccgcagc aagccgatta tcttcaccat ggcaagggtg gaccgtgtga 240
agaacatcac a 251

<210> 2410
<211> 248
<212> DNA
<213> Glycine max

<400> 2410

cacagatttc attatcacca gtaccttcca ggagattgct ggaagcaagg acactgttgg 60
 acagtatgag tctcacacag cctttaccct tcttggactc taccgtgttg tgcacggcat 120
 tgatgtcttt gatccaaaat tcaacattgt ctcccctgga gctgatcaaa ccatttactt 180
 cccccccacc gaaactagcc gtaggttgac ctcttccac cccgaaatcg aagaacttct 240
 ttacagct 248

<210> 2411
 <211> 250
 <212> DNA
 <213> Glycine max

<400> 2411

tggagacagg aggaaggagt caaaggactt ggaagaaaag gccgagatga agaagatgta 60
 cggcctgata gagacctaca agttgaacgg ccaattcaga tggatttcat cgcagatgaa 120
 ccgtgtgagg atggagagct ctaccgcgtg atctgcgaca ccaggggtgc tttcgtgcag 180
 cctgctgtat acgaggcttt tggtttgaca gtggttgagg ccatgacttg cggcttgcca 240
 acattcgcca 250

<210> 2412
 <211> 253
 <212> DNA
 <213> Glycine max

<400> 2412

caaaaccag atgcactcca acatgttctg aggaaagctg aggagtatct gggcacagtg 60
 cctcctgaaa ctccctactc agaatttgag gacaagttcc aggagattgg tttggcgaga 120
 gggcggggtg acaagcagag cgtgttcttg agtcaattca acttctcttg gatcttcttg 180
 aggcccctga cccttgacc cttgagactt tccttggaag aattcctatg gtcttcaatg 240
 ttgtcattct ttc 253

<210> 2413
 <211> 237
 <212> DNA
 <213> Glycine max

<400> 2413

cagatctgat tgttggaac tacagtgat gaaacattgt cgcttctttg ttggcacata 60
aattaggtgt cactcagtgt accattgctc acgcacttga gaagaccaa taccccaat 120
ccgacattta ctggaaaata ttggaagaga gataccactt ctcttgccaa ttccccgctg 180
atctatttgc catgaaccac acagatttca ttatcaccag taccttccag gagattg 237

<210> 2414
<211> 264
<212> DNA
<213> Glycine max

<400> 2414

tagcaatgac actgttggac agtatgagtc tgacacagcc ttacccttc ctggactcta 60
ccgtgttggt cacggcattg atgtctttga tccaaaattc aacattgtct ccccgagct 120
gatcaaacca ttacttccc cccaccgaa actagccgta ggttgacctc cttccacccc 180
gaaatcgaag aacttcttta cagctctgtg gagaatgaag aacacatatg cgtgctgaag 240
gaccgcagca agccgattat cttc 264

<210> 2415
<211> 246
<212> DNA
<213> Glycine max

<400> 2415

gaagaacaca tatgcgtgct gaaggaccgc agcaagccga ttatcttcac catggcaagg 60
ttggaccgtg tgaagaacat cacaggactc gtggagtggc acggaagaa cgcgaaactga 120
gggagttggt gaaccttgtg gttgttgccg gagacaggag gaaggagtcg aaggacttgg 180
aagagaaggc cgagatgaag aagatgtacg gcctgatcga gacctacaag ttgaacgggc 240
aattca 246

<210> 2416
<211> 247
<212> DNA
<213> Glycine max

<400> 2416

ttcacagctg atctatttgc catgaaccac acagatttca ttattaccag taccttccag 60

gagattgctg gaagcaagga cactgttgga cagtatgagt ctcacacagc ctttaccctt 120
cctggactct accgtgttgt gcacggcatt gatgtctttg atccaaaatt caacattgtc 180
tcccctggag ctgatcaaac catttacttc cccccaccg aaactagccg taggttgacc 240
tccttcc 247

<210> 2417
<211> 257
<212> DNA
<213> Glycine max

<220>
<221> unsure
<222> (1)..(257)
<223> unsure at all n locations

<400> 2417

gccatgaacc acacagattt cattatcacc agtaccttcc aggagattgc tggaagcang 60
gacactgttg gacagtatga gtctcacaca gcctttaccc ttcttgact ctaccgtgtt 120
gtgcacggca ttgatgtctt tgatccaaaa ttcaacattg tctcccctgg agctgatcaa 180
accatttact tccccccac cgaaactagc cgtagttgac ctccttcac cccgaaatcg 240
aagaacttct ttacagc 257

<210> 2418
<211> 247
<212> DNA
<213> Glycine max

<400> 2418

cggcactgat gtctttgatc caaaattcaa cattgtatcc cctggagctg atcaaaccat 60
ttacttcccc cccaccgaaa ctagccgtag gttgacctcc ttccaccccg aaatcgaaca 120
acttctttac agctctgtgg agaatagaaga acacatatgc gtgctgaagg accgcagcaa 180
gccgattatc ttcacatgg caagggttga ccgtgtgaac gacatcacag gactcgtgga 240
gtggtac 247

<210> 2419
<211> 267
<212> DNA
<213> Glycine max

<400> 2419

gccaatcag atggatatcc tctcagatga accgtgtgag gaacggagag ctctaccgtg 60
tcattctgtga cacaaggggt gcctttgtgc agcctgcagt ttatgaggcc tttgggttga 120
ctgtgggttga ggccatgact tgtgggttgc caacgtttgc cacatgcaat ggtggtcctg 180
ctgagatcat tgtgcatgga aaatctggtt accacattga tccttaccat ggtgaccatg 240
ctgctgagat ccttggttggag ttctttg 267

<210> 2420

<211> 229

<212> DNA

<213> Glycine max

<400> 2420

gtgacaacgc agagcgtggt cttgagtcaa ttcaacttct cttggatctt cttgaggccc 60
ctgacccttg cacccttgag actttccttg gaagaattcc tatggtcttc aatgttgtca 120
ttctttctcc ccatgggttac ttgcccgaag ataatgtctt gggataccct gacactgggtg 180
gccaggttgt ttacatcttg gatcaagttc gtgctttgga gaacgagat 229

<210> 2421

<211> 265

<212> DNA

<213> Glycine max

<400> 2421

gtcaaaggac ttggaagaaa aggccgagat gaagaagatg tacggcctga tcgagaccta 60
caagttgaac ggccaattca gatggatttc atcgagatg aaccgtgtga ggaatggaga 120
gctctaccgc gtgatctgcg acaccagggg tgctttcgtg cagcctgctg tatacgaggc 180
ttttggtttg acagtgggtg aggccatgac ttgcggcttg ccaagattcg ccacatgcaa 240
tgtgggtcct gctgagatca ttgtg 265

<210> 2422

<211> 250

<212> DNA

<213> Glycine max

<400> 2422

ggaagagaga taccacttct cttgcccaatt cacagctgat ctatttgcca tgaaccacac 60
agatttcatt atcaccagta ccttccagga gattgctgga agcaaggaca ctgttggaca 120
gtacgaatct cacacagcct tcacccttcc tggactctac cgcgttgtgc atggtattga 180
tgtctttgat ccaaaattca acattggctc ccctggagct gatcatacca ttacttccc 240
ccacactgaa 250

<210> 2423
<211> 237
<212> DNA
<213> Glycine max
<400> 2423

ataccacttc tcttgccaat tcacagctga tctatttgcc atgaaccaca cagatttcac 60
tatcaccagt accttccagg agattgctgg aagcaaggac actgttggac agtatgagtc 120
tcacacagcc ttacccttc ctggactcta ccgtgttgtg cacggcattg atgtctttga 180
tccaaaattc aacattgtct ccctggagc tgatcaaacc atttacttcc ccccccac 237

<210> 2424
<211> 282
<212> DNA
<213> Glycine max
<400> 2424

gcgtgctgaa ggaccgcagc aagccgatta tcttcacat ggcaagggtg gaccgtgtga 60
agaacatcac aggactcgtg gagtggcacg gtaagaacgc gaactgaggg agttggtgaa 120
ccttgtgggtt gttgccggag acaggaggaa ggagtcgaag gacttggaag agaaggccga 180
gatgaagaag atgtacggcc tgatcgagac ctacaagttg aacgggcaat tcagatggat 240
ttcatctcag atgaaccgtg tgaggaacgg agagctgtac cg 282

<210> 2425
<211> 313
<212> DNA
<213> Glycine max
<400> 2425

gtacgtaagt tcggtctacg gtcggttcag catcgacatc ctctcacatg aactgtgtga 60

cgaacggaga gctctaccgt gtcattctgtg acacaagggg tgcctttgtg cagcctgcag 120
 tttatgaggc ctttgggtac actgtgggtg aggccatgac ttgtgggttg ccaacgtttg 180
 ccacatgcaa tgggtggctc gctgagatca ttgtgcatgg aaaatctggt taccacattg 240
 atccttacca tggtgaccat gctgctgaga tccttggtga gttctttgag aagagcaagg 300
 ctgatccatc tca 313

<210> 2426
 <211> 271
 <212> DNA
 <213> Glycine max

<400> 2426

gagaatgagg aacacatatg cgtattgaag gaccgcaaca aaccaataat cttcaccatg 60
 gcaaggcttg accgtgtgaa gaacatcacg gggcttgctg agtggtagcg gaagaacgca 120
 cgctccgcg agttggtgaa cctgggtggtg gtggctggag acaggaggaa ggagtcgaag 180
 gacttggaag agaaggccga gatgaagaag atgtatggcc tcatcgagac ctacaagttg 240
 aacggccaat tcagatggat atcctctcag a 271

<210> 2427
 <211> 258
 <212> DNA
 <213> Glycine max

<400> 2427

aaaccattta cttccccccc accgaaacta gccgtagggt gacctccttc cccccgaaa 60
 tcgaagaact tctttacagc tctgtggaga atgaagaaca catatgcgtg ctgaaggacc 120
 gcagcaagcc gcttatcttc accatggcaa ggttggaccg tgtgaagaac atcacaggac 180
 tcgtggagtg gtacggtaag aacgcgaact cgaggaggtt ggtgaacctt gtggttggtg 240
 ccggagacag gaggaagg 258

<210> 2428
 <211> 263
 <212> DNA
 <213> Glycine max

<400> 2428

tacaagttga acggccaatt cagatggata tcctctcaga tgaaccgtgt gaggaacgga 60
gagctctacc gtgtcatctt cgacacaagg ggtgcctttg tgcagcctgc agtttatgag 120
gcctttgggt tgactgtggt tgacgccatg acttgtgggt tgccaacggt tgccacatgc 180
aatggtggtc ctgctgagat cattgtgcat ggaaaatctg gttaccacat tgatccttac 240
catggtgacc atgctgctga gat 263

<210> 2429
<211> 252
<212> DNA
<213> Glycine max

<400> 2429

ggaagtaaat ggtttgatca gctccagggg agacatcctt ccaccctgaa atcgaagaac 60
tccttttacag ctgagtggag aatgaagaac acatatgtgt gctgaaggac cgcagcaagc 120
caattatctt caccatggca aggttggatc gagtgaagaa catcacagga cttgtggagt 180
ggtacggtaa gaacgcgaac tcgagggagc tgggtgaacct tgtggttggt gctggagaca 240
ggaggaagga gt 252

<210> 2430
<211> 234
<212> DNA
<213> Glycine max

<400> 2430

gggaaagact ttgatgttga atgacagcct tcaaaaccca gatgcactcc aacatgttct 60
gaggcaagct gaggagtatc tgggcacagt gcctcctgaa actccctact cagaatttga 120
gcacaagttc caggagattg gtttggagag aggggtgcgggt gacaacgcag agcgtgttct 180
tgagtcaatt caacttctct tggatcttct tgaggcccct gacccttgca ccct 234

<210> 2431
<211> 266
<212> DNA
<213> Glycine max

<400> 2431

gtgacattct cagagttcct ttcagaacag aaaaggggaat tgttcgcaaa tggatctcaa 60

gattcgaagt ctggccatac ctagagactt acactgagga tgtcgccctt gaacttgcca 120
aggagtgtgca agccaagcca gatctgattg ttggaaacta cagtgatgga aacattgttg 180
cctctttgtt agcacataaa ttaggagtaa ctcaagtgtac cattgctcat gctctagaaa 240
agaccaagta ccctgagtct gacatt 266

<210> 2432
<211> 276
<212> DNA
<213> Glycine max

<220>
<221> unsure
<222> (1)..(276)
<223> unsure at all n locations

<400> 2432

gcctgagtct gacatttact ggaaaaaatt tgaagagaaa tatcatttct catgccaatt 60
tactgctgat ctttttgcaa tgaaccacac agactttatc atcaccagca ccttccaaga 120
gattgctgga agcaaggaca ctgntggaca gtatgagagt cacactgcct tcacccttcc 180
aggactttac cgtgttggtc acggtattga tccatttgat ccaaagttca acattgtctc 240
tcccggtgca gacatgggta tatacttccc atacac 276

<210> 2433
<211> 268
<212> DNA
<213> Glycine max

<400> 2433

tcgagaccta caagttgaac ggccaattca gatggatata ctctcagatg aaccgtgtga 60
ggaacggaga gctctaccgt gtcattctgtg acacaagggg tgcctttgtg cagcctgcag 120
tttatgaggc ctttggttg actgtggttg aggccatgac gtgtgggttg ccaacgtttg 180
ccacatgcaa tgggtggtcct gctgagatca ttgtgcatgg aaaatctggt taccacattg 240
atccttacca tggtgaccat gctgctga 268

<210> 2434
<211> 279
<212> DNA

<213> Glycine max

<400> 2434

gcgtattgaa ggaccgcaac aaaccaataa ttttcacat ggcaaggctt gaccgtgtga 60
agaacatcac ggggcttgtc gagtggtcgg gaagaacgca cgcctccgag agttggtgaa 120
cctgggtggtg gtggctggag acaggaggaa ggcgtcgaag gacttggaag agaaggccga 180
gatgaagaag atgtatggcc tcatcgagac ctacaagttg aacggccaat tcagatggat 240
atcctctcag atgaaccgtg tgaggaacgg agagctcta 279

<210> 2435

<211> 222

<212> DNA

<213> Glycine max

<400> 2435

cgttggtttac atcttggtac acgttcgtgc tttggagatt gagatgctcc atcgcatata 60
gcaacaagga ttggacattg ttctcgtat tctcattatc acccgtcttc tccccgatgc 120
agtaggaact acttggtggc aacgtcttga gaaggtgttc ggaactgagc actcccacat 180
tcttcgagtt ccctttagaa ctgagaaggg aattgttcgc aa 222

<210> 2436

<211> 259

<212> DNA

<213> Glycine max

<400> 2436

atggatctca agattcgaag tctggccata cctagagact tacactgagg atgtcgccct 60
ggaacttgcc aaggagttgc aagccaagcc agatctgatt gttggaaact acagtgatgg 120
aaacattggt gcctctttgt tagcacataa attaggagta actcagtgtg ccattgctca 180
tgctctagaa aagaccaagt accctgagtc tgacatttac tggaaaaaat ttgaagagaa 240
atatcatttc tcatgcaa 259

<210> 2437

<211> 251

<212> DNA

<213> Glycine max

<400> 2437

gtccaaggac ttggaagaga aggccgagat gaagaagatg tatggcctca tcgagaccta 60

caagttgaac ggccaattca gatggatctc ctctcagatg aaccgtgtga ggaacggaga 120

gctctaccgt gtcattctgtg acacaagggg tgcctttgtg cagcctgcag tttatgaggc 180

ctttggggtg actgtgggtg aggccatgac ttgtgggtta ccaacatttg ccacatgcaa 240

tggtggtcct g 251

<210> 2438

<211> 253

<212> DNA

<213> Glycine max

<400> 2438

ggagagctgt accgtgtgat ctgcgacacc aatggagctt tcgtgcagcc ggctatatac 60

gaggcttttg gcttgacact ggttgaagcc atgacttgta ggttgccaac attcgccaca 120

tgcaatgggtg gtcttgctga gatcattgtg catggcaagt ctggcttcca cattgaccct 180

taccatgggtg accgtgctgc ggatctccct gctgacttct ttgagaagtg caagcttgac 240

ccaaccact ggg 253

<210> 2439

<211> 229

<212> DNA

<213> Glycine max

<400> 2439

cccatgggtta ctttgcccaa gataatgtct tgggataccc tgacactggg ggccagggtg 60

tttacatctt ggatcaagtt cgtgctttgg agaacgagat gtcctatcgc attaagcaac 120

aaggattgga cattgtacct cgtattctca ttatcaccgg tcttctcccc gatgcaatcg 180

gaactacttg tggccaacgt cttgagaagg tgttcggaac cgagcactc 229

<210> 2440

<211> 260

<212> DNA

<213> Glycine max

<400> 2440

gccgagatga agaagatgta tggcctcatc gagacctaca agttgaacgg ccaattcaga 60
 tggatatacct ctcagatgaa ccgtgtgagg aacggagagc tctaccgtgt catctgtgac 120
 acaaggggtg cctttgtgca gcctgcagtt tatgaggcct ttggggtgac tgtgggttgag 180
 gccatgactt gtggggtgcc aacgtttgcc acatgcaatg gtggtcctgc tgagatcatt 240
 gtgcatggaa aatctgggta 260

<210> 2441
 <211> 250
 <212> DNA
 <213> Glycine max

<220>
 <221> unsure
 <222> (1)..(250)
 <223> unsure at all n locations

<400> 2441

tggaaacatt gttgcctctt tggtggcaca taaattagga gtcactcagt gtaccattgc 60
 tcatgcactt gagaagacca aataccccga atccgacatt tactggaaaa aattggaaga 120
 gagataccac ttctcttgcc aattcacagc tgatctatct gccatgaacc acacagattt 180
 catcacaanc agtaccttcc aggagattgc tggactgcag gacactgttg gacagtatga 240
 gtctcacaca 250

<210> 2442
 <211> 259
 <212> DNA
 <213> Glycine max

<400> 2442

gcttctttac agctcagtgg agaatgagga acacatatgc gtattgaagg accgcaacaa 60
 accaataatc ttcaccatgg caaggcttga ccgtgtgaag aacatcacgg ggcttgtcga 120
 gtggtacggg aagaacgcac gcctccgcga gttggtgaac ctggtggtgg tggttggaaga 180
 caggaggaag gagtcgaagg acttggaaga gaaggccgag atgaagaaga tgtatggcct 240
 catcgagacc tacaagttg 259

<210> 2443
 <211> 244

<212> DNA
 <213> Glycine max
 <400> 2443
 aaggacttgg aagagaaggc cgagatgaag aagatgtatg gcctcatcga gacctacaag 60
 ttgaacggcc aattcagatg gatctcctct cagatgaacc gtgtgaggaa cggagagctc 120
 taccgtgtca tctgtgacac aaggggtgcc tttgtgcagc ctgcagttta tgaggccttt 180
 gggttgactg tggttgaggc catgacttgt gggttaccaa catttgccac atgcaatggc 240
 ggtc 244

<210> 2444
 <211> 220
 <212> DNA
 <213> Glycine max
 <400> 2444
 cccccacact gaaaccagcc gtaggttgac atccttccac cctgaaatcg aagaactcct 60
 ttacagctca gtggagaatg aagaacacat atgtgtgctg aaggaccgca gcaagccaat 120
 tatcttcacc atggcaaggt tggatcgagt gaagaacatc acaggacttg tggagtggta 180
 cggtaagacc gcgaactgga gggacctgga aaaccttggg 220

<210> 2445
 <211> 248
 <212> DNA
 <213> Glycine max
 <400> 2445
 caagtaccct gagtctgaca tttactggaa aaaatttgaa gagaaatata atttctcatg 60
 ccaatttact gctgatcttt ttgcaatgaa ccacacagac tttatcatca ccagcacctt 120
 ccaagagatt gctggaagca aggacactgt tggacagtat gagagtcaca ctgccttcac 180
 ccttccagga ctttaccgtg ttgttcacgg tattgatcca tttgatccaa agttcaacat 240
 tgtctctc 248

<210> 2446
 <211> 262
 <212> DNA
 <213> Glycine max

<400> 2446

cacggggcctt gtcgagtggg acgggaagaa cgcacgcctc cgcgagttgg tgaacctggt 60

ggtgggtggct ggagacagga ggaaggagtc gaaggacttg gaagagaagg ccgagatgaa 120

gaagatgtat ggcctcatcg agacctacaa gttgaacggc caattcagat ggatatacctc 180

tcagatgaac cgtgtgagga acggagagct ctaccgtgtc atctgtgaca caaggggtgc 240

tcctgtgcag cctgcagttt at 262

<210> 2447

<211> 273

<212> DNA

<213> Glycine max

<400> 2447

gaacttgcca aggagttgca agccaagcca gatctgattg ttggaaacta caatgatgga 60

aacattgttg cctctttggt agcacataaa ttaggagtaa ctcagtgtac cattgctcat 120

gctctagaaa agaccaagta ccctgagtct gacatttact ggaaaaaatt tgaagagaaa 180

tatcatttct catgccaaatt tactgctgat ctttttgcaa tgaaccacac agactttatc 240

atcaccagga ccttccaaga gattgctgga agc 273

<210> 2448

<211> 290

<212> DNA

<213> Glycine max

<220>

<221> unsure

<222> (1)..(290)

<223> unsure at all n locations

<400> 2448

taancagatt gatccttacc atgggtganca tgctgctgag atccttggtg agntctttga 60

gaagancaag gctgntnct ctcactggga cnnaatctcc caggngggac tcaagcgtat 120

tcatgnnaag tacacatggc aaatttactc ggncaggctc ttgacactca ctgggtgtgta 180

tggcttcttg aagcacgtga ccaatcttga acgccgtgag agcaaacgtt acctcgagat 240

gttctatgct ctcaagtacc gcaaattggc tgagtctgtg ccccttgcta 290

<210> 2449
 <211> 257
 <212> DNA
 <213> Glycine max

<400> 2449

gaagaacgca cgcctccgcg agttggtgaa cctgggtggtg gtggctggag acaggaggaa 60
 ggagtcgaag gacttggaag agaaggccga gatgaagaag atgtatggcc tcatcgagac 120
 ctacaagttg aacggccaat tcagatggat atcctctcag atgaaccgtg tgaggaacgg 180
 agagctctac cgtgtcatct gtgacacaag gggcgccttt gtgcagcctg cagtttatga 240
 ggcctttggg ttgactg 257

<210> 2450
 <211> 304
 <212> DNA
 <213> Glycine max

<220>
 <221> unsure
 <222> (1)..(304)
 <223> unsure at all n locations

<400> 2450

aggcgaccat gctgctgaga tccttggtga gttctttgag aagagcaagg ctgatccatc 60
 tcactgggac aaaatctccc aggggtggact caagcgtatt catgagaagt acacatggca 120
 aatttactcg gacaggctct tgacactcac tgggtgtgat ggctnccgana agcacgtgac 180
 caatcttgaa cgccgtgaga gcaaaccgtta cctcgagatg ttctatgctc tcaagtaccg 240
 caaattggct gagtctgtgc cccttgctat tgaagagtaa attcatgttt gaagagaaca 300
 tcaa 304

<210> 2451
 <211> 248
 <212> DNA
 <213> Glycine max

<400> 2451

agaaggccga gatgaagaag atgtatggcc tcatcgagac ctacaagttg aacggccaat 60
 tcagatggat atcctctcag atgaaccgtg tgagaaacgg agagctctac cgtgtcatct 120

gtgacacaag ggggtgccttt gtgcagcctg cagtttatga ggcctttggg ttgactgtga 180
gataggccat gacttgtggg ttgccaacgt ttgccacatg caatgggtgg cctgctgaga 240
tcattgtg 248

<210> 2452
<211> 255
<212> DNA
<213> Glycine max

<400> 2452

agaacatcac ggggcttgtc gagtggtagc ggaagaacgc acgcctccgc gaggttggtga 60
acctgggtgg ggtggctgga gacaggagga aggagtcgaa ggacttggaa gagaaggccg 120
agatgaagaa gatgtatggc ctcacgaga cctacaagtt gaacggccaa ttcagatgga 180
tatacctctca gatgaaccgt gtgaggaacg gagagctcta ccgtgtcatc tgtgacacaa 240
ggggtgcctt tgtgc 255

<210> 2453
<211> 259
<212> DNA
<213> Glycine max

<400> 2453

gaagaacatc acggggcttg tcgagtggta cgggaagaac gcacgcctcc gcgagttggt 60
gaacctggtg gtggtggctg gagacaggag gaaggagtcg aaggacttgg aagagaaggc 120
cgagatgaag aagatgtatg gcctcatcga gacctacaag ttgaacggcc aattcagatg 180
gatatacctc cagatgaacc gtgtgaggaa cggagagctc taccgtgtca tctgtgacac 240
aaggggtgcc tttgtgcag 259

<210> 2454
<211> 276
<212> DNA
<213> Glycine max

<400> 2454

gctcgcagct ggcctcatcg agacctacaa gttgaacggc caattcagat ggatatacctc 60
tcagatgaac cgtgtgagga acggagagct ctaccgtgtc atctgtgaca caaggggtgc 120

ctttgtgcag cctgcagttt atgaggcctt tgggttgact gtggttgagg ccatgacttg 180
 tacggttgcc aacgtttgcc acatgcaatg gtggtcctgc tgacatcact gtgcatggaa 240
 aatctggtta ccacattgat ccttaccatg gtgacc 276

<210> 2455
 <211> 231
 <212> DNA
 <213> Glycine max

<400> 2455

cacagcgtca agggaaagac tttgatgttg aatgacagaa ttcaaaaccc agatgcactc 60
 caacatgttc tgaggcaagc tgaggagtat ctgggcacag tgccctcctga aactccctac 120
 tcagaatttg agcacaagtt ccaggagatt ggtttggcga gaggggtgcgg tgacaacgca 180
 gagctagttc ttgagtccat tcaacttctc taggatctac ttgaggcgcc t 231

<210> 2456
 <211> 245
 <212> DNA
 <213> Glycine max

<400> 2456

gaaaagacca agtaccctga gtctgacatt tactggaaaa aatttgaaga gaaatatcat 60
 ttctcatgcc aatttactgc tgatcttttt gcaatgaacc acacagactt tatcatcacc 120
 agcaccttcc aagagattgc tggaagcaag gacactgttg gacagtatga gagtcacact 180
 gccttcaccc ttccaggact ttaccgtgtt gttcacggta ttgatccatt tgatcaaagt 240
 tcaac 245

<210> 2457
 <211> 236
 <212> DNA
 <213> Glycine max

<400> 2457

cagaccaagt accctgagtc tgacatttac tggaaaaaat ttgaagagaa atatcatttc 60
 tcatgccaat ttactgctga tctttttgca atgaaccaca cagactttat catcaccagc 120
 accttccaag agattgctgg aagcaaggac actggttgac agtatgagag tcacactgcc 180

ttcacccttc caggacttta ccgtgttggt cagcgtattg atccatttga tccaaa 236

<210> 2458
 <211> 236
 <212> DNA
 <213> Glycine max

<400> 2458

gggaattggt cgcaaattgga tctcaagatt cgaagtctgg ccatacctag agacttacac 60

tgaggatgtc gcccttgaac ttgccaagga gttgcaagcc aagccagatc tgattgttgg 120

aaactacagt gatggaaaca ttgttgcttc tttgttagca cataaattag gagtaactca 180

gtgtaccatt gctcatgctc tagaaaagac caagtaccct gagtctgaca ttact 236

<210> 2459
 <211> 254
 <212> DNA
 <213> Glycine max

<400> 2459

cccacactga aaccagccgt aggttgacat ccttccaccc tgaaatcgaa gaactccttt 60

acagctcagt ggagaatgaa gaacacatat gtgtgctgaa ggaccgcagc aagccaatta 120

tcttcaccat ggcaagggtg gatcgagtga agaacatcac aggacttgtg gagtggtagc 180

gtaagaacgc gaactcgagg gctggtgaac cttgtggttg ttgctggaga caggaggaag 240

gagtcaaagg actt 254

<210> 2460
 <211> 261
 <212> DNA
 <213> Glycine max

<220>
 <221> unsure
 <222> (1)..(261)
 <223> unsure at all n locations

<400> 2460

cconcaattc ccttctcagt totaaagga attgttcgtc annnngatct cangattcga 60

agtcctggcca tacttggaac cttacactga ggaacttgct catgagcttg ccaaagagtt 120

gcaaggcaag ccagatctga ttgtcgaaa ctacagtgat ggaaacattg ttgcctcttt 180
 gttggcacat aaattaggag tcatcagtgt accattgctc atgcacttga gaagaccaa 240
 taccocgaat ccgacattta t 261

<210> 2461
 <211> 277
 <212> DNA
 <213> Glycine max

<400> 2461

catcaagaaa caaggccttg atatcacccc tcgtattctc attatcactc gtcttctccc 60
 tgatggcagt aggaactacc tgtggccaac gtctagagag ggtatatgat actgaatatt 120
 gtgacattct cagagttcct ttcagaacag aaaagggaaat tggtcgcaa tggatctcaa 180
 gattcgaagt ctggccatac ctagagactt aactgagga tgtcgccctt gaacttgcca 240
 aggagttgca agccaagcca gatctgattg ttggaaa 277

<210> 2462
 <211> 247
 <212> DNA
 <213> Glycine max

<400> 2462

ggctcgagcg gctcgagcga aactagccag aggttgacct ccttacaccc cgaaatcgaa 60
 gaacttgttt acagctctgt ggagaatgaa gaacacatat gcgtgctgaa ggaccgcagc 120
 aagccgatta tcttcacat ggcaagggtg gaccgtgtga agaacatcac aggactcgtg 180
 gagtggtacg gtaagaacgc gaagctgagg gagttggtga accttggtgtg ttgtgccgga 240
 gacagga 247

<210> 2463
 <211> 250
 <212> DNA
 <213> Glycine max

<400> 2463

cggctcgagg tttatgaggc ctttgggttg actgtggttg aggccatgac ttgtgggttg 60
 ccaacgtttg ccacatgcaa tgggtggtcct gctgagatca ttgtgcatgg aaaatctggt 120

taccacattg atccttacca tggtgaccat gctgctgaga tccttggtga gttctttgag 180
aagagcaagg ctgatccatc tcaactgggac aaaatctccc aggggtggact caagcgtatt 240
catgagaagt 250

<210> 2464
<211> 268
<212> DNA
<213> Glycine max

<400> 2464

cagactttat catcaccagc accttccaag agattgctgg aagcaaggac actgtttggac 60
agtatgagag tcacactgcc ttcacccttc caggacttta cctgtgtggt cacggtattg 120
atccatttga tccaaagttc aacattgtct ctcccgggtgc agacatgggt atatacttcc 180
catacactga aactgagcgt aggttaacag aattccactc tgacattgaa tcgcttcttt 240
acagctcagt ggagaatgag gaacacat 268

<210> 2465
<211> 283
<212> DNA
<213> Glycine max

<400> 2465

ttgccacatg caatggtggt cctgctgaga tcattgtgca tggaaaatct gggtaccaca 60
ttgatcctta ccatggtgac catgctgctg agatccttgt tgagttcttt gagaagagca 120
aggctgatcc atctcactgg gacaaaatct cccaggggtgg actcaagcgt attcatgaga 180
agtacacatg gcaaatttac tcggacaggc tcttgacact cactggtgtg tatggcttct 240
ggaagcacgt gaccaatctt gaacgccgtg agagcaaacg tta 283

<210> 2466
<211> 269
<212> DNA
<213> Glycine max

<400> 2466

gtttacatct tggatcaagt tcgtgccttg gagaatgaga tgctcaaccg catcaagaaa 60
caaggccttg atatcacccc tcgtattctc attatcactc gtcttctcca goatgcagta 120

ggaactacct gtggccaacg tctagagagg gtatatgata ctgaatattg tgacattctc 180
agagttcctt tcataacaga aaagggaatt gttcgcaaat ggatctcaag attcgaagtc 240
tggccatacc tagagactta cactgagga 269

<210> 2467
<211> 253
<212> DNA
<213> Glycine max

<400> 2467

caagaatgcg cgctccgcg agttggtaaa cctcgtggtg gtggccggag acaggaggaa 60
ggagtccaag gacttggaag agaaggccga gatgaagaag atgtatggcc tcatcgagac 120
ctacaagttg acggccaatt cagatggatc tcctctcaga tgaaccgtgt gaggaacgga 180
gagctctacc gtgtcatctg tgacacaagg ggtgcctttg tgcagcctgc agtttatgag 240
gcctttgggt tga 253

<210> 2468
<211> 251
<212> DNA
<213> Glycine max

<400> 2468

tatcacttct catgccaatt tactgctgat ctttttgcaa tgaaccacac agactttatc 60
atcaccagca ccttccaaga gattgctgga agcaaggaca ctgttggaac gtatgagagt 120
cacactgcct tcacccttcc aggactctac cgtgttggtc acggtattga tccctttgat 180
ccagagttca acatcgtctc tcccggtgcc gacatgagca tatacttccc atacactgaa 240
actgagcgta g 251

<210> 2469
<211> 258
<212> DNA
<213> Glycine max

<400> 2469

cggctcgaga cggctgcgag aagcgacaga agggcgacat tgaagagctt ctttacagct 60
cagtggagaa tgaagaacac atatgtgtat tgaaggaccg caacaagccg atcatcttca 120

ccatggcaag acttgaccgt gtgaagaaca tcacgggact tgtggagtgg tatggcaaga 180
atgcgcgcct ccgcgagttg gtaaacctcg tgggtggtggc cggagacagg aggaaggagt 240
ccaagggact tggaagag 258

<210> 2470
<211> 273
<212> DNA
<213> Glycine max

<220>
<221> unsure
<222> (1)..(273)
<223> unsure at all n locations

<400> 2470

attgatccct ttgatccaaa gttcaacatc gtctctcccg gtgccgacat gagcatatac 60
ttcccataca ctgaaactga gcgtaggtta acagagttcc accccgacat tgaagcgnct 120
ctttacagct cagtggagaa tgaagaacac atatgtgtat tgaaggaccg caacaagccg 180
atcatcttca ccatggcaag acttgaccgt gtgaagaaca tcacgggact tgtggagtgg 240
tatggcaaga atgcgcgcct ccgcgagttg gta 273

<210> 2471
<211> 257
<212> DNA
<213> Glycine max

<400> 2471

atgacttggtg ggttaccaac atttgccaca tgcaatggtg gtcttgctga gatcattgtg 60
catggaaaat ctggttacca cattgaccct taccatggtg accgtgctgc tgagatcctt 120
gttgagttct ttgaaaagag caaggctgac ccatctcact gggacaaaat ctcccagggt 180
gtactcaagc gtattcatga gaagtacaca tggcaaattt actctgacag gctcttgaca 240
ctcactggtg tgtatgg 257

<210> 2472
<211> 239
<212> DNA
<213> Glycine max

<400> 2472

tggcaagaat ggcgcgcctcc gcgagttggt aaacctcgtg gtggtggccg gagacaggag 60
gaaggagtcc aaggacttgg aagagaaggc cgagatgaag aagatgtatg gcctcatcga 120
gacctacaag ttgaacggcc aattcagatg gatctcctct cagatgaacc gtgtgaggaa 180
cggagagctc taccgtgtca tctgtgacac aaggggtgcc tttgtgcagc ctgcagttt 239

<210> 2473
<211> 263
<212> DNA
<213> Glycine max

<400> 2473

tgccaattta ctgctgatct ttttgcaatg aaccacacag actttatcat caccagcacc 60
ttccaagata ttgctggaag caaggacact gttggacagt atgagagtca cactgccttc 120
acccttccag gactctaccg tgttggtcac ggtattgatc cctttgatcc aaagttcaac 180
atcgtttctc gcggtgccga catgagcata tacttcccat aactgaaac tgttcgtagg 240
ttaacagagt tccacacaac ata 263

<210> 2474
<211> 230
<212> DNA
<213> Glycine max

<400> 2474

ccgctcgagc ggctcgagca gtaccttcca ggagattgct ggaagcaagg aactgtttgg 60
acagtatgag tctcacacag cctttacccc tcttggaactc taccgtgttg tgcacggcat 120
tgatgtcttt gatccaaaat tcaacattgt ctcccctgga gctgatcaaa ccatttactt 180
cccccccacc gaaactagcc gtaggttgac ctccctccac cccgaaatcg 230

<210> 2475
<211> 255
<212> DNA
<213> Glycine max

<400> 2475

aatttactgc tgatcttttt gcaatgaacc acacagactt tatcatcacc agcaccttcc 60
aagagattgc tggactcaag gacactgttg gacagtatga ggtcacact gccttcaccc 120

ttccaggact ttaccgtggt gttcacggta ttgatccatt tgatccaaag ttcaacattg 180
tctctcccgg tgcagacatg ggtatatact tcccatacac tgaaactgag cgtaggttaa 240
cagaattcca ctctg 255

<210> 2476
<211> 276
<212> DNA
<213> Glycine max

<220>
<221> unsure
<222> (1)..(276)
<223> unsure at all n locations

<400> 2476

ggagtatctg ggcacagngc ctctgaaac tcnctactgc agantttgag cacaagttcc 60
aggagnntgg tttggagaga nngtgggggtg acaacgcgna ntgtccttga gtcaattcaa 120
cttctcttgg atcttcttgn ggcccctgac ccgtgcaccc ttgagacttt ccttggaaga 180
atccctatgg ngttcaatgt tgnnatcttt ctcccatgg ttactttgcc caagataatg 240
tcttgggana cctgacactg gtggccagggt tgttac 276

<210> 2477
<211> 251
<212> DNA
<213> Glycine max

<400> 2477

gtgacactgc cgagcgtgtc ctcgagatga tccagcttct cctggacctt cttgaggcac 60
ctgacccttg caccctcgag acattccttg gaagagtccc tatggtcttc aatgttggtta 120
tcctttctcc ccatggttac tttgcccgaag ataatgtctt gggataccct gacactggtg 180
gacaggttgt ttacatcttg gatcaagttc gtgccttgga gaatgagatg ctcaaccgca 240
tcaagaaaca a 251

<210> 2478
<211> 270
<212> DNA
<213> Glycine max

<400> 2478

cggtgcagac atgggtatat acttcccata cactgaaact gagcgtaggt taacagaatt 60

ccactctgac attgaagagc ttctttacag ctcagtggag aatgaggaac acatatgcgt 120

attgaaggac cgcaacaaac caataatctt caccatggca aggcttgacc gtgtgaagaa 180

catcacgggg attgtcgagt ggtacgggaa gaacgcacgc ctccgcgagt tggatgaacct 240

ggtggtggtg gctggagaca ggaggaagga 270

<210> 2479

<211> 174

<212> DNA

<213> Glycine max

<400> 2479

gatcaaacca ttacttccc ccacactgaa accagccgta ggttgacatc cttccaccct 60

gaaatcgaag aactccttta cagctcagtg gagaatgaag aacacatatg tgtgctgaag 120

gaccgcagca agccaattat cttcaccatg gcaagggttg atcgagtga gaac 174

<210> 2480

<211> 239

<212> DNA

<213> Glycine max

<400> 2480

ccatgctgct gagatccttg ttgagttctt tgagaagagc aaggctgac catctcactg 60

ggacaaaatc tcccaggggtg gactcaagcg tattcatgag aagtacacat ggcaaattta 120

ctcggacagg ctcttgacac tcaactgggtg gtatggcttc tggaacacg tgaccaatct 180

tgaacgcggt gagagcaaac gttacctga gatgttctat gctctcaagt accgcaa 239

<210> 2481

<211> 237

<212> DNA

<213> Glycine max

<400> 2481

gaaccacaca gactttatca tcaccagcac cttccaagag attgctggaa gcaaggacac 60

tggttgacag tatgagagtc aactgcctt cacccttcca ggactctacc gtgttggtca 120

cggtattgat ccctttgatc caaagttcaa catcgtctct cccggtgccg acatgagcat 180
 atacttccca tacactgaaa ctgagcgtag gttaacagag ttccaccccg acattga 237

<210> 2482
 <211> 255
 <212> DNA
 <213> Glycine max

<400> 2482

ggttaacaga gttccacccc gacattgaag ggcttcttta cagctcagtg gagaatgacg 60
 aacacatatg tgtattgaag gaccgcaaca agccgatcat cttcaccatg gcaagacttg 120
 accgtgtgaa gaacatcacg gcacttgtgg agtgggtatgg caagaatgcg cgcctccgcg 180
 agttggtaaa cctcgtcgtg gtggccggag acaggaggca ggagtccacg gacgtggaag 240
 agaaggccga gatga 255

<210> 2483
 <211> 264
 <212> DNA
 <213> Glycine max

<400> 2483

gttctttgag aagagcaagg ctgatccatc tactggggac aaaatctccc aggggtggact 60
 caagcgtatt catgagaagt acacatggca aatttactcg gacaggctct tgacactcac 120
 tgggtgtgtat ggcttctgga agcacgtgac caatcttgaa cgccgtgaga gcaaacgtta 180
 cctcgagatg ttctatgctc tcaagtaccg caaattgggt gagtctgtgc ccttgctatt 240
 gaagagaaat tcatgtttga agag 264

<210> 2484
 <211> 233
 <212> DNA
 <213> Glycine max

<220>
 <221> unsure
 <222> (1)..(233)
 <223> unsure at all n locations
 <400> 2484

ctcgagccga atcggctcga gaacatcaca ggactcgtgg agtggcacgg taagaacgcg 60

acctgnaggg agttggtgaa ccttgtggtt gttgccggag acaggaggaa ggagtcgaag 120
gacttggaag agaaggccga gatgaagaag atgtacggcc tgatcgagac ctacaagttg 180
aacgggcaat tcagatggat ttcattctcag atgaaccgtg tgaggaacgg aga 233

<210> 2485
<211> 267
<212> DNA
<213> Glycine max

<400> 2485

atgagatgct caaccgcac aagaaacaag gccttgatat caccctcgt attctcatta 60
tcactcgtct tctcgtgat gcagtaggaa ctacctgtgg ccaacgtcta gagagggtat 120
atgatactgg ctattggaca ttctcagagt tcctttcaga acagaaaagg gaattgttcg 180
caaattggatc tcaagattcg aagtctggcc atacctagag acttacactg aggatgtcgg 240
ccttgaactt gccaggagt tgcaagc 267

<210> 2486
<211> 238
<212> DNA
<213> Glycine max

<400> 2486

ccgcaacaaa ccaataatct tcaccatggc aaggcttgac cgtgtgaaga acatcacggg 60
gcttgctcag tggtacggga agcacgcacg cctccgcgag ttggtgaacc tggtggtggt 120
ggctggagac aggaggaagg agtcgaagga cttggaagag aaggccgaga tgaagaagat 180
gtatggcctc atcgagacct acaagttgaa cggccaattc agatggatat cctctcag 238

<210> 2487
<211> 259
<212> DNA
<213> Glycine max

<220>
<221> unsure
<222> (1)..(259)
<223> unsure at all n locations
<400> 2487

gttaacagag ttccaccccg ancattgaan ncgttcttta cagtnagtg gagaatgaag 60
aacacatatg tgtattgaag gaccgcaaac aagncgatca tcttcaccat ggcaagactt 120
gaccgtgtga agaacatcac gggacttggt gagtggtatg gcaagaatgc gcgcctccgc 180
gagttggtaa acctcgtggt ggtggccgga gacaggagga aggagtccaa ggacttgga 240
gagaaggccg agatgaaga 259

<210> 2488
<211> 230
<212> DNA
<213> Glycine max

<400> 2488

cctcgacgcc gagcgtgtcc tcgagatgat ccagcttctc ttggaccttc ttgaggcaac 60
cgacctacc accctcgaga acttccttgg aagagttcct atggtcttca atgttggtat 120
cctttctccc catggttact ttgcccaaga taatgtcttg gggtagcctg aactggtgg 180
acaggttggt tacatcttgg atcaagttcg tgccttggag aatgagatgc 230

<210> 2489
<211> 229
<212> DNA
<213> Glycine max

<400> 2489

gttctttgaa aagagcaagg ctgacccatc tcaactgggac aaaatctccc aggggtggact 60
caagcgtatt catgagaagt acacatggca aatttactct gacaggctct tgacactcac 120
tggtgtgtat ggcttctgga agcatgtgac caatcttgaa cgccgtgaga gcaaactgta 180
ccttgagatg ttctatgctc tcaagtaccg caaattgggt gactctgtg 229

<210> 2490
<211> 257
<212> DNA
<213> Glycine max

<400> 2490

tattactcgt cttctccctg atgcagtagg aactacctgt ggccaacgct tagagaggg 60
atatcatact gaatattgtg acattctccg agttccttctc agaaccgaaa acggaattgt 120

tcgcaaattgg atctcaacat tcgaagtctg gccataccta gagacttaca ctgaggatgt 180
 tgcccttgaa cttgccaagg agttgcaagc caagccagat ctgatcggtg gaaactacag 240
 tgatggaaac attgttg 257

<210> 2491
 <211> 250
 <212> DNA
 <213> Glycine max

<400> 2491

acagacttta tcatcaccag caccttccaa gagattgctg gaagcaagga cactgttgga 60
 cagtatgaga gtcacactgc cttcaccctt ccaggacttt accctgttgt tcacggtatt 120
 gatccatttg atccaaagtt caacattgtc tctcccgggtg cagacatggg catatacctc 180
 ccatacactg aaactgagcg taggttaaca gaattccact ctgacatcga agagcttctt 240
 tacagctcag 250

<210> 2492
 <211> 273
 <212> DNA
 <213> Glycine max

<220>
 <221> unsure
 <222> (1)..(273)
 <223> unsure at all n locations

<400> 2492

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 ttaccacatt gatccttaac atggtgacat nctgctgaga tccttggtga gttctttgag 120
 aagagcaagg ctgatccatc ctcactggga caaaatctcc cagggtggac tcaagcgtat 180
 tcatgagaag tacacatggc aaatttactc ggacaggctc ttgacactca ctggtgtgta 240
 tggctctgga agcacgtgac caatctgaac gcc 273

<210> 2493
 <211> 245
 <212> DNA
 <213> Glycine max

<400> 2493

cggctcgagg tttatgaggc ctttggggtg actgtgggtg aggccatgac ttgtggggtg 60
 ccaacgtttg ccacatgcaa tgggtggcct gctgagatca ttgtgcatgg aaaatctggt 120
 taccacattg atccttacca tggtgaccat gctgctgaga tccttggtga gttctttgag 180
 aagagcaagg ctgatccatc tcaactgggac aaaatctccc aggggtggact caagcgtatt 240
 catga 245

<210> 2494
 <211> 252
 <212> DNA
 <213> Glycine max

<220>
 <221> unsure
 <222> (1)..(252)
 <223> unsure at all n locations

<400> 2494

taacaagttg aacggccaat acngatggat atcctnncag atgaaccgtg tgaggaacgg 60
 agagctctac cgtgtcatct gtgacacaag ggggtgccttt gtgcagcctg cagtttatga 120
 ggcctttggg ttgactgtgg ttgaggccat gacttgtggg ttgccaacgt ttgccacatg 180
 caatggtggt cctgctgaga tcatgtgcag gaaaatctgg ttaccacatg atccntacca 240
 ggtgaccagc tg 252

<210> 2495
 <211> 261
 <212> DNA
 <213> Glycine max

<400> 2495

acaggactcg tggagtggta cggtaagaac gcgaactcga gggagtgggt gaaccttgtg 60
 gttgttgccg gagacaggag gaaggagtcg aaggacttgg aagagaaggc cgagatgaag 120
 aagatgtacg gcctgatcga gacctacaag ttgaacgggc aattcagatg gatttcatct 180
 cagatgaacc gtgtgaggaa cggagagctg taccgtgtga tctgcgacac caagggagct 240
 ttcgtgcagc cggctatata c 261

<210> 2496

<211> 246
 <212> DNA
 <213> Glycine max

 <400> 2496

 caaagttcaa cattgtctct cccggtgcag acatgggcat atacttccca tacactgaaa 60
 ctgagcgtag gttaacagaa ttccactctg acatcgaaac acttctttac agctcagtgg 120
 agaatgagga acacatatgc gtatgaagga cgcgaacaaa ccaataatct tcaccatggc 180
 aaggcttgac cgtgtgaaga acatcacggg gcttgctcag tggtacggga agaacgcacg 240
 cctccg 246

<210> 2497
 <211> 261
 <212> DNA
 <213> Glycine max

 <400> 2497

 caggacttta ccgtgttggt cacggtattg atccatttga tccaaagttc aacattgtct 60
 ctcccgggtgc agacatgggt atatacttcc catacactga aactgagcgt aggttaacag 120
 aattccactc tgacattgaa gggcttcttt acagctcagt ggagaatgag gaacacatat 180
 gcgtattgaa ggaccgcaac aaaccactaa tcttcaccat ggcaaggctt gaccgatgtg 240
 aagaacatca cggggcttgt c 261

<210> 2498
 <211> 219
 <212> DNA
 <213> Glycine max

 <400> 2498

 gagatctaca agttgtacgg ccaattcaga tggatatcct ctcagatgaa ccgtgtgagg 60
 aacggagagc tctaccgtgt catctgtgac acaaggggtg cctttgtgca gcctgcagtt 120
 tatgaggcct ttaggttgac tttgggtaag gccatgactt gtgggtcgcc aacgtttgcc 180
 acatgcaatg gtggtcctgc tgagatcatt gtgcatgga 219

<210> 2499
 <211> 235
 <212> DNA

<213> Glycine max

<400> 2499

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caaggcttga ccgtgtgaag aacatcacgg ggcttgtcga gtggtacggg aagaacgcac 60
gcctccgcga gttggtgaac ctggtggtgg tggctggaga caggaggaag gagtcgaagg 120
acttgaagag aaggccgaga tgaagaagat gtatggcctc atcgagacct acaagttgaa 180
cggccaattc agatggatat cctctcagat gaaccgtgtg aggaacggag agctc 235
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<210> 2500

<211> 238

<212> DNA

<213> Glycine max

<400> 2500

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acaaaatctc ccaggggtgga ctcaagcgta ttcattgagaa gtacacatgg caaatttact 60
cggacagggt cttgacactc actggtgtgt atggcttctg gaagcacgtg accaatcttg 120
aacgccgtga gagcaaactg tacctcgaga tgttctatgc tctcaagtac cgcaaattgg 180
ctgagtctgt gccccttgct attgaagagt aaattcatgt ttgaagagaa catcaatg 238
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<210> 2501

<211> 264

<212> DNA

<213> Glycine max

<220>

<221> unsure

<222> (1)..(264)

<223> unsure at all n locations

<400> 2501

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ctgaaactga gcgtagggtta acagaattcc actctgacat cgaagcgctt ctttacagct 60
cagtggagaa tgaggaacac atatgcgtat tgaaggaccg caacaaacca ataattctca 120
ccatggcaag gcttgaccgt gtgaagaaca tcacggggct tgtcgagtgg tacgggaaga 180
acgcacgcct tcgcgagatt gntaaccatg ctgatgntgc atgagacagg aggaaggaga 240
ctgaagactt tgaagagaag gccg 264
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<210> 2502

<211> 257

<212> DNA
 <213> Glycine max
 <400> 2502
 ctgaaactga gcgtaggtta acagaattcc actctgacat cgaaacaatt ctttacagct 60
 cagtggagaa tgaggaacac atatgcgtat tgaaggaccg caacaaacca atatcttcac 120
 catggcaagg cttgaccgtg tgaagaacat cacggggctt gtcgagtggc acgggaagaa 180
 cgcacgcctc cgcgagttgg tgaacctggc ggtgggtggc ggagacagga ggaaggagtc 240
 gaaggacttg gaagaga 257

<210> 2503
 <211> 175
 <212> DNA
 <213> Glycine max
 <400> 2503
 caacttctct tggatcttct tgaggccctt gacccttgca cccttgagac tttccttgga 60
 agaattccta tggctctcaa tgttgcatt ctttctcccc atggttactt tgccaagat 120
 tatgtcttgg gataccctga cactggtggc caggttggtt acatcttgga tcaag 175

<210> 2504
 <211> 189
 <212> DNA
 <213> Glycine max
 <400> 2504
 gggaattggt cgcaaatgga tctcaagatt cgaagtctgg ccatacctag agacttacac 60
 tgaggatgtc gccctggaac ttgccaagga gttgcaagcc aagctagatc tgattggtgg 120
 aaactacagt gatggaaaca ttgttgccctc tttgttagca cataaattag gagtaactca 180
 gtgtacaat 189

<210> 2505
 <211> 216
 <212> DNA
 <213> Glycine max
 <400> 2505
 gacatcgaag agcttcttta cagctcagtg gagaatgagg aacacatatg cgtattgaag 60

gaccgcaaca aaccaataat cttcaccatg gcaagggtga ccggtgtgaag aacatcacgg 120
 ggcttgtcga gtggtacggg aagaaacgaa ggcttcgcga gttggtgaac tgggtggtgg 180
 ggctgaagac aggaggaagg attcgaggct ttgaaa 216

<210> 2506
 <211> 246
 <212> DNA
 <213> Glycine max

<400> 2506

ctcgagccga atcggtcga gcggctcgag cggctcgaga tgaagcacac atatgtgtat 60
 tgaaggaccg caacaagccg aacatcttca acatggcaag acttgaccgt gtgaagaaca 120
 tcacgggact tgtggagtgg tatggcaaga atgcgcgcct ccgcgagttg gtaaacctcg 180
 tgggtggtgga cggagacagg aggaaggagt ccaaggacgt tgaagagaag gccgagatga 240
 agaaga 246

<210> 2507
 <211> 239
 <212> DNA
 <213> Glycine max

<400> 2507

tgaagaagat gtacggcctg atcgagacct acaagttgaa cggccaattc agatggattt 60
 catcgcagat gaaccgtgtg aggaatggag agctctaccg cgtgatctgc gacaccaggg 120
 gtgctttcgt gcagcctgct gtatacgagg cttttggttt gacagtgggtt gaggccatga 180
 cttgcggctt gccaacattc gccacatgca atgggtggtcc tgctgagatc attgtgcac 239

<210> 2508
 <211> 269
 <212> DNA
 <213> Glycine max

<400> 2508

gggtggactc aagcgtattc atgagaagta cacatggcaa atttactcgg acaggctctt 60
 gacactcact ggtgtgtatg gcttctggaa gcacgtgacc aatcttgaac gccgtgagat 120
 gaaacgttac ctcgagatgt tctatgctct caagtaccgc aaattggctg agtctgtgcc 180

ccttgctatt gacgagtaaa ttcatgtttg aagagaacat caatggcgaa accggctttt 240
 ggtcgtttga agtcttatgg agctttcat 269

<210> 2509
 <211> 184
 <212> DNA
 <213> Glycine max
 <400> 2509

aactcagtgt accattgctc atgctctaga aaagaccaag taccctgagt ctgacattta 60
 ctggaaaaaa tttgaagaga aatatcattt ctcatgccaa tttactgctg atctttttgc 120
 aatgaaccac acagacttta tcataccag caccttccaa gagattgctg gaagcaagga 180
 cact 184

<210> 2510
 <211> 229
 <212> DNA
 <213> Glycine max
 <400> 2510

ggatcaagtt cgtgccttgg agaatgagat gctcaaccgc atcaagaaac aaggccttga 60
 tatcaccctt cgtattctca ttattactcg tcttctccct gatgcagtag gaactacctg 120
 tggcgaacgt ctagagaggg tatatgatac tgaatattgt tacattctcc gcggtcctgt 180
 cagaactgag gagggacttg ttgcgaaatg gagctgaaga ttcgaagtc 229

<210> 2511
 <211> 215
 <212> DNA
 <213> Glycine max

<220>
 <221> unsure
 <222> (1)..(215)
 <223> unsure at all n locations
 <400> 2511

atcaccagca ccttccaaga gattgctgga agcaaggaca ctgttgga ntatgagagt 60
 cacactgcct tcacccttcc aggactttac cgtgttggtc acggtattga tccatttgat 120

ccaaagttca acattgtctc tcccgtgnc gacatgggta tataacttccc atacactgaa 180
actgagcgtg gggttaacaga attccacaca acata 215

<210> 2512
<211> 235
<212> DNA
<213> Glycine max

<400> 2512

atttgatcca aagttcaaca ttgtctctcc cgggtgcagac atgggtatat acttcccata 60
cactgaaact gagcgtaggt taacagaatt ccactctgac attgacgaag ctctttacag 120
ctcagtggag aatgaggaac acatatgcgt attgaaggac cgcaacaaac caataatctt 180
caccatggca aggcttgacc gtgtgaagaa catcacgggg cttgtcgagt ggtac 235

<210> 2513
<211> 253
<212> DNA
<213> Glycine max

<400> 2513

tctcgagcga ttcggtcac ggctcgaggt tcacgggtatt gaccatttg atccaaagct 60
caacattgtc tctcccgtg cagacatggg tatatacttc ccatacactg aaactgagcg 120
taggttaaca gaattccact ctgacattga agagcttctt tacagctcag tggagaatga 180
ggaacacata tgcgtattga aggaccgcaa caaaccaata atcttcacca tggcaaggct 240
tgaccgtgtg aag 253

<210> 2514
<211> 250
<212> DNA
<213> Glycine max

<400> 2514

cgggtgcagac atgggtatat acttcccata cactgaaact gagcgtaggt taacagaatt 60
ccactctgac attgaaacac ctctttacag ctcagtggag aatgaggaac acatatgcgt 120
attgaaggac cgaacaaacc aataatcttc accatggcaa ggcttgacgc tgggtgaagaa 180
ctccacgggg cttgtcgagt ggtacgggaa gaacgcacgc ctccgcgagt tgggtgaacct 240

ggtggtggtg

250

<210> 2515
<211> 269
<212> DNA
<213> Glycine max

<220>
<221> unsure
<222> (1)..(269)
<223> unsure at all n locations

<400> 2515

tgcactggta cgggaagaac gcacgcctcc gcgagttggt gaacctggtg gtggtggcng 60
gagacaggan gaaggagtcn aaggacttgg aagagaaggc cgagntgang aanntgtang 120
gctcatcgag acctacaagt tgaacggcca attcagatgn atatcntctg cagatgaacc 180
gtgtgaggaa cgganagctc taccgtgtcc atctgtgaca caaggngtgc tttgtgncag 240
cctgcagttt atgaggcntn gggttganc 269

<210> 2516
<211> 227
<212> DNA
<213> Glycine max

<220>
<221> unsure
<222> (1)..(227)
<223> unsure at all n locations

<400> 2516

cagactttat catcaccagc accttccaag agattgctgg aataanggac actggttgac 60
agtatgagag tcacactgcc ttcacccttc caggacttta ccgtgttggt cacggtattg 120
atgcctttga tccaaagttc aacattgtct ctcccgggtgc agacatgggt atatacttcc 180
catacactga aactgagcgt aggttaacag aattccacac tgcatac 227

<210> 2517
<211> 244
<212> DNA
<213> Glycine max

<220>
<221> unsure

<222> (1)..(244)
 <223> unsure at all n locations
 <400> 2517
 gtatatactt cccatacact gaaactgagc gtaggttaac agaattccac tctgacattg 60
 aatctcttct ttacagctca gtggagaatg aggaacacat atgcgtattg aaggaccgca 120
 acaaaccata atcttcacca tggcaatgct tgacgtgttg aagaacatca cggggcttgt 180
 cgagtgggtac gggaagaacg cacgcctccg cgagttgngt gaactgggtg tgggtggctgg 240
 agac 244

<210> 2518
 <211> 260
 <212> DNA
 <213> Glycine max
 <400> 2518
 ccggtgcaga catgggcata tacttcccat aactgaaac tgagcgtagg ttaacagaat 60
 tccactctga catcgaacta cttctttaca gtcagtga gaatgaggaa cacatatgcg 120
 tattgaagga ccgcaacaaa ccaataatct tcaccatggc aaggcttgac cgttgtgaag 180
 aacatcacgg ggcttgtcga gtggtacggg aagaacgcac gcctccgcga gttggtgaac 240
 ctggtggtgg tagctggaga 260

<210> 2519
 <211> 177
 <212> DNA
 <213> Glycine max
 <220>
 <221> unsure
 <222> (1)..(177)
 <223> unsure at all n locations
 <400> 2519
 tctaccgtgt catctgtgac acaaggggtg cttttgtgca gcctgcagtt tatgaggcct 60
 ttgggttgac tgtggttgag gccatgactt gtgggttacc aacatttgcc acatgcaatg 120
 gtggtcctnc tgagatcatt gtgcatggaa aatctggtna ccacntnncn cccttnt 177

<210> 2520

<211> 244
 <212> DNA
 <213> Glycine max

 <400> 2520

 atagagaggg tatactgata ctgaatattg tgacattctc agagttcctt tcagaacaga 60
 aaaggggaatt gttcgcaaatt ggatctcaag attcgaagtc tggccataacc tagagactta 120
 cactgaggat gtcgcccttg aacttgtcaa ggagttgaag ccaagtcaga tctgattggt 180
 ggaaactaca gtgatggaaa cattgttgcc tctttgttag cacataaatt aggagtcact 240
 cagt 244

<210> 2521
 <211> 259
 <212> DNA
 <213> Glycine max

 <400> 2521

 gtaaattgtcg gattcggggt atttggtctt ctcaagtgc tgagcaatgg tacactgagt 60
 gactcctaatt ttatgtgcc acaaagaggc aacaatgttt ccatcactgt agtttccgac 120
 aatcagatct cattatcacc agtaccttcc aggagattgc tggaagcaag gacactgttg 180
 gacagtatga ctctcacaca gcctttaccc ttcttggtgact ctaccgtgtt gtgcacggca 240
 ttgatgtctt tgatccaaa 259

<210> 2522
 <211> 239
 <212> DNA
 <213> Glycine max

 <400> 2522

 cggacaggct cttgacactc actggtgtgt atggcttctg gaagcacgtg accaatcttg 60
 aacgccgtga gagcaaactg tacctcgaga tggtctatgc tctcaagtac cgcaaattgg 120
 ctgagtctgt gccccttgct attgaagagt aaattcatgt ttgaagagaa catcaatgga 180
 gaaaccggct tttggtcggt tgaagtctta tggagctttc ataaataacg ccattgatt 239

<210> 2523
 <211> 235
 <212> DNA

<213> Glycine max

<400> 2523

cggacaggct cttgacactc actggtgtgt atggcttctg gaagcacgtg accaatcttg 60
aacgccgtga gagcaaactg tacctcgaga tgttctatgc tctcaagtac cgcaaattgg 120
ctgagtctgt gcccttgcct attgaagagt aaattcatgt ttgaagagaa catcaatgga 180
gaaaccggct tttggtcggt tgaagtctta tggagctttc ataaataacg ccatt 235

<210> 2524

<211> 143

<212> DNA

<213> Glycine max

<400> 2524

ctcgagccgc accagtacct tccaggagat tgctggaagc aaggacactg ttggacagta 60
tgcgtctcac acagccttta cccttcctgg actctaccgt gttgtgcacg gcattgatgt 120
ctttgatcca aaattccaca ttg 143

<210> 2525

<211> 142

<212> DNA

<213> Glycine max

<400> 2525

gtcggaaact acagtgatgg aaacattggt gcctctttgt tggcacataa attaggagtc 60
actcagtgta ccattgctca tgcacttgag aagagcgaat accccgaatc cgacatgtac 120
tggacaagat tgggagagag gt 142

<210> 2526

<211> 254

<212> DNA

<213> Glycine max

<400> 2526

ctcactggtg tgtatggctt ctggaagcac gtgaccaatc ttgaacgccg tgagagcaaa 60
cgttacctcg agatgttcta tgctctcaag taccgcaaatt tggctgagtc tgtgcccctt 120
gctattgaag agtaaatcca tgtttgaaga gaacatcaat ggagaaaccg gcttttggtc 180

gtttgaagtc ttatggagct ttcataaata acgccattga ttttgattgt gatcagcttt 240
 tggatttaaa gagt 254

<210> 2527
 <211> 131
 <212> DNA
 <213> Glycine max

<220>
 <221> unsure
 <222> (1)..(131)
 <223> unsure at all n locations

<400> 2527

cttgtggttg ttgccggana caggagtnag gagtcgaagg acttgnaaga gaaggccgag 60
 atgnnnaaga tgtacggcct gatcnananc tacnagttga acgggnaatt cagatggnnn 120
 ncatctcaga t 131

<210> 2528
 <211> 161
 <212> DNA
 <213> Glycine max

<400> 2528

tatgagagtc aactgcctt cacccttcca ggactctacc gtgttgttca cggtattgat 60
 ccctttgatc caaagttcaa catcgtctct cccggtgccg acatgagcat atacttccca 120
 tacactgaaa ctgaacgtag gttaacagag ttccacacaa c 161

<210> 2529
 <211> 152
 <212> DNA
 <213> Glycine max

<400> 2529

ctggactcta ccgcgttggt catggtattg atgtctttga tccaaaattc aacattgtct 60
 cccctggagc tgatcaaacc atttacttcc cccacactga aaccagccgt aggttgacat 120
 ccttccaccc tgaaatcgaa gaactccttt ac 152

<210> 2530
 <211> 232

<212> DNA
 <213> Glycine max
 <400> 2530
 ctgaaactga gcgtagggta acagaattcc actctgagat cgaagcgctt ctttacagct 60
 cagtggagaa tgaggaacac atatgcgtat tgaaggaccg gaacaaacga atatcttcac 120
 catggcaagg cttgaccgtg tgaagaacat cacggggcctt gtcgagtggc acgggaagaa 180
 cgcaagcctc cgcgagttgg tgaacctggc ggtgggtggc ggagacagga gg 232

<210> 2531
 <211> 244
 <212> DNA
 <213> Glycine max
 <400> 2531
 ttcgacacgc acggccaggc tcttgacact caccggtgtg tatggcacct ggaagcccgt 60
 gaccaatcgc gaacgccgtg agagcaaacg ctacgccgag atgttccaag ctactcaagt 120
 accgcaaatt ggctgagtct gtgccccttg ctactgaaga gtaacttcat gtttgaagag 180
 aacatcaatg gagacaccgg cttttggtcg tttgaagtct tatggagctt tcataaataa 240
 cgcc 244

<210> 2532
 <211> 279
 <212> DNA
 <213> Glycine max
 <400> 2532
 attcttgagt tcatggaagg gaaaccagat cttgttattg gaaattacac tgatggaaat 60
 ttggtagcat cactaatggc tagaaaactt gggataactc agggaactat agcacatgct 120
 ttagagaaga ccaagtatga agactcagat gtcaagtgga aagagttgga cccaagtac 180
 cacttctcgt gtcaattcat ggcggataga gtggcaatga atgcatctga tttcatcata 240
 accagcacat accacgaatg tcgtggaagc aaagataga 279

<210> 2533
 <211> 244
 <212> DNA
 <213> Glycine max

<400> 2533

gttcatggaa gggaaaccag atctagttat tggaaattac actgatggaa atttggtagc 60

atcactaatg gctagaaaac ttgggataac tcagggaact atagcacatg ctttagagaa 120

gaccaagtat gaagactcag atgtcaagtg gaaagagttg gaccccaagt accacttctc 180

gtgtcaattc atggcggata cagtggcaat gaatgcatct gatttcatca taaccagcac 240

atac 244

<210> 2534

<211> 262

<212> DNA

<213> Glycine max

<400> 2534

gccgtgagag ccgccgctat ctcgagatgt tctatgctct caagtaccgc aaattggctg 60

agtctgtgcc ccttgctgct gagtaaactg aggataaaga gttggataaa gaaatggagg 120

aaccggcttt ttctttctca tttggagttt tgcgcacttg agttttataa ataatgtccg 180

tgatttttagt tttgtgatta agctttcgat aagaggagag aaagagaagg aaaaaaagt 240

tgcttttttt tttggtggtt gc 262

<210> 2535

<211> 266

<212> DNA

<213> Glycine max

<400> 2535

tcgagatggt ctatgctctc aagtaccgca aattggctga gtctgtgccc cttgctgctg 60

agtaaaactga ggataaagag ttggataaag aaatggagga accggctttt tctttctcat 120

ttggagtttg tgcgcacttg gttttataaa taatgtccgt gatttttagtt ttgtgattaa 180

gctttcgata agaggagaga aagagaagga aaaaaaagt tgcttttttt tttggtggtg 240

catgattggg acttgattgg aaaagc 266

<210> 2536

<211> 241

<212> DNA

<213> Glycine max

<400> 2536

gttggataaa gaaatggagg aaccggcttt ttctttctca tttggagttt gtcgcacttg 60

agttttataa ataatgtccg tgattttagt tttgtgatta agctttcgat aagaggagag 120

aaagagaagg aaaaaaaaaag ttgctttttt ttttgttggt gcatgatttg gatcttgatt 180

ggaaaagctt cgaattgggg tagttttacc cagcaattca attttaagcc gtgccttctt 240

c 241

<210> 2537

<211> 274

<212> DNA

<213> Glycine max.

<400> 2537

ctctcaagta ccgcaaattg gctgagtctg tgccccttgc tgctgagtaa actgaggata 60

aagagttgga taaagaaatg gaggaaccgg ctttttcttt ctcatattgga gtttgtcgca 120

cttgagtttt ataaataatg tccgtgattt tagttttgtg attaagcttt cgataagagg 180

agagaaagag aaggaaaaaa aaagttgctt ttttttttgt tgttgcatga tttggatctt 240

gattggaaaa gcttcgaatt ggggtagttt tacc 274

<210> 2538

<211> 275

<212> DNA

<213> Glycine max

<400> 2538

atttttacct tgaaatatgt tgtcattgaa cttgctaatt tatcttgta ttgtttttac 60

ctttaggctg agtctgtgcc ccttgctgct gagtaaaactg aggataaaga gttggataaa 120

gaaatggagg aaccggcttt ttctttctca tttggagttt gtcgcacttg agttttataa 180

ataatgtccg tgattttagt tttgtgatta agctttcgat aagaggagag aaagagaagg 240

aaaaaaaaag ttgcttttgt ttttgttggt gcatg 275

<210> 2539

<211> 256

<212> DNA

<213> Glycine max

<400> 2539

gccgtgagag cgcgcgctat ctcgagatgt tctatgctct caagtaccgc aaattggccg 60

agtctgtgcc ccttgctgtt gagtaaactg aggatgaaga gttggataaa gaaatggagg 120

aaccggcttt ttgtttctca tttggagttt gtcttacttg agttctataa ataatatgtc 180

cctgatgatt ttaattttgt gattaagctt tcgataagag acagagagag aaaaaaaaaa 240

aaaaaaaaag gggggg 256

<210> 2540

<211> 259

<212> DNA

<213> Glycine max

<220>

<221> unsure

<222> (1)..(259)

<223> unsure at all n locations

<400> 2540

cntgtgtcta accttgaccg ccgtgagagc cgccgctatc tcgagatggt ctatgctctc 60

aagtaccgca aattggccga gtctgtgccc cttgctgttg agtaaactga ggatgaagag 120

ttggataaag aaatggagga accggctttt tggtttctcat ttggagtttg tcttacttga 180

gttctataaa taatatgtcc ctgatgattt taattttgtg attaagcttt cgataagaga 240

cagagagaga aaaaaaagg 259

<210> 2541

<211> 250

<212> DNA

<213> Glycine max

<400> 2541

gccgctatct cgagatgttc tatgctctca agtaccgcaa attggccgag tctgtgcccc 60

ttgctgttga gtaaactgag gatgaagagt tggataaaga aatggaggaa ccggcttttt 120

gtttctcatt tggagtttgt cttacttgag ttctataaat aatatgtccc tgatgatttt 180

aattttgtga ttaagctttc gataagagac agagagagaa aaaaaaggaa aaaaaaaaaa 240

aagcctttta 250

<210> 2542
 <211> 189
 <212> DNA
 <213> Glycine max

 <400> 2542

 gtgagagccg cgcctatctc gagatgttct atgctctcaa gtaccgcaaa ttggccgagt 60
 ctgtgccctt tgctgttgag taaactgagg atgaagagtt ggataaagaa atggaggaac 120
 cggctttttg tttctcattt ggagtttgtc ttacttgagt tctataaata atatgtccct 180
 gatgatttt 189

<210> 2543
 <211> 229
 <212> DNA
 <213> Glycine max

 <400> 2543

 gccgtgagag ccgccgctat ctcgagatgt tctatgctct caagtaccgc aaattggccg 60
 agtctgtgcc ccttgctgtt gagtaaactg aggatgaaga gttggataaa gaaatggagg 120
 aaccggcttt ttgttctcat ttggagtttg tcttacttga gttctataaa taatatgtcc 180
 ctgatgattt taattttgtg attaagcttt cgataagaga cagagagag 229

<210> 2544
 <211> 223
 <212> DNA
 <213> Glycine max

 <400> 2544

 ctttaggccg agtctgtgcc ccttgctgtt gagtaaactg aggatgaaga gttggataaa 60
 gaaatggagg aaccggcttt ttgtttctca tttggagttt gtcttacttg agttctataa 120
 ataatatgtc cctgatgatt ttaattttgt gattaagctt tcgataagag acagagagag 180
 aaaaaaagg aaaaaaaaaa aagcctttta ctttttgtct ttt 223

<210> 2545
 <211> 282
 <212> DNA
 <213> Glycine max

<400> 2545

ctcgagccgc aagacctggt gtgtgggagt acctgagagt gaatgtgcac gctcttggtg 60

ttgaggagtt gcaacctgct gagtacctgc acttcaagga agaacttggt gacggaagtt 120

ctaattggcaa ctttgtgctt gagttggact ttgaaccatt caatgcagcc ttcccccgcc 180

caactcttaa caaggcaatt ggaaatggtg tgcaagacct caaccgtcac ctttctgcca 240

aactcttcca cgacaagggtg agcagacacc cacttttggg gt 282

<210> 2546

<211> 271

<212> DNA

<213> Glycine max

<220>

<221> unsure

<222> (1)..(271)

<223> unsure at all n locations

<400> 2546

gttgcaacct gctgagtacc ttcacttcaa ggaagaactt gttgatggaa gttctaattgg 60

caactttgtg cttgagttgg actttgaacc attcaatgca gccttccttc gcncannncc 120

ttaacaagtc aattggaaat ggtgtgcagt tcctcaaccg ccacctttct gccaaactct 180

tccacgaaaa ngaaaaatgg aaaaanactt ttggaattcc tcaggcttca cagcgtcaag 240

ggaaagactt tgatgttgaa tgacagaatc a 271

<210> 2547

<211> 214

<212> DNA

<213> Glycine max

<400> 2547

tgtgcacgct cttgttggtg aggagttgca acctgctgag tacctgcact tcaaggaaga 60

acttgttgac ggaagttcta atggcaactt tgtgcttgag ttggactttg aaccattcaa 120

tgcagccttc ccccgcccaa ctcttaacaa gtcaattgga aatggtgtgc aattcctcaa 180

ccgtcacctt tctgccaac tcttcacac aaca 214

<210> 2548

<211> 87

<212> DNA
 <213> Glycine max
 <400> 2548
 tggactttga accattcaat gcagccttcc ctgcccacac tcttaacaag tcaattggaa 60
 atggtgtgca gttcctcaac cgccacc 87

<210> 2549
 <211> 333
 <212> DNA
 <213> Glycine max
 <220>
 <221> unsure
 <222> (1)..(333)
 <223> unsure at all n locations

<400> 2549
 ctttacaccc ccctctctat tttgcgttca ttctgttttc ttgaagtctt tccctagcca 60
 atggccactg atcgtttgac ccgggttnca cagtctccgt gagaggcttg atgaaaccct 120
 cactgccaac gggaacgaaa ttttgccct tctgtcaagg atcgagctaa gggcaagggg 180
 atcctgcaac accaccaggt cattgctgag tttgaggaaa tccctgagga gaacaggcag 240
 aagcttactg atggtgcctt tggagaagtc ttgagatcta cacaggaagc catagttttg 300
 ccaccatggg ttgctctggc tgttcgtcca agc 333

<210> 2550
 <211> 291
 <212> DNA
 <213> Glycine max
 <400> 2550
 cccctctct tttttgcgtt cattctgttt tctgatgaa gtctttccct agccaatggc 60
 caccgatcgt ttgaccggg ttcacagtct ccgtgagagg cttgatgaaa ccctcactgc 120
 caacaggaat gaaatttttg ccttctgtc aaggatcgaa gccaaaggga agggcatcct 180
 gcaacaccac caggtcattg ctgagtttga ggaaatccct gaggagaaca gacagaagct 240
 cactgatggt gcctttggag aagtcttgag atctacacag gaagccatag t 291

<210> 2551

<211> 298
 <212> DNA
 <213> Glycine max

<220>
 <221> unsure
 <222> (1)..(298)
 <223> unsure at all n locations

<400> 2551

cgttcattct gttttcagtt gaagtctttc nctagccaat ggccactgat cgtttgacnc 60
 gtnntcacag tcnccgtgag aggcttgatg aaaccctcac tgccaacagg aacgaaattt 120
 tggcccttct gtcaaggatc gaagctaagg gcaaggggat cctgcaacac caccaggtca 180
 ttgctgagtt tgaggaaatc cctgaggaga acaggcagaa gcttactgat ggtgcctttg 240
 gagaagtctt gagatctaca caggaagcca tagttttgcc accatgggtt gctctggc 298

<210> 2552
 <211> 262
 <212> DNA
 <213> Glycine max

<400> 2552

ttttcctggt gaagtctttc cctagccaat ggccaccgat cgtttgaccc gggttcacag 60
 tctccgtgag aggcttgatg aaaccctcac tgccaacagg aatgaaattt tggcccttct 120
 gtcaaggatc gaagccaagg gcaagggcat cctgcaacac caccaggtca ttgctgagtt 180
 tgaggaaatc cctgaggaga acagacagaa gctcactgat ggtgcctttg gagaagtctt 240
 gagatctaca caggaagcca ta 262

<210> 2553
 <211> 291
 <212> DNA
 <213> Glycine max

<220>
 <221> unsure
 <222> (1)..(291)
 <223> unsure at all n locations

<400> 2553

ccctctcta ttttgcgttc attctgtttt ccagttgaag tctttcccta gccaatggcc 60

actgatcggt tgacccgggt tcacagtctc cgtgagaggc ttgatgaaac cctcactgcc 120
aacaggaacg aaattttggc ctttctgtca aggatcgaag ctaagtanca aggggatcct 180
gcaacaccac caggtcattg ctgagtttga ggaaatccct gaggagaaca ggcagaagct 240
tactgatggt gcctttggag aagtcttgag atctacacag gaagccatag t 291

<210> 2554
<211> 247
<212> DNA
<213> Glycine max

<400> 2554

ctcactgcc aacaggaatga aattttggcc cttctgtcaa ggatcgaagc caagggcaag 60
ggcatcctgc aacaccacca ggtcattgct gagtttgagg aaatccctga ggagaacaga 120
cagaagctca ctgatggtgc ctttggagaa gtcttgagat ctacacagga agccatagtt 180
ttgccaccat gggttgctct ggctgttcgt ccaagacctg gtgtgtggga gtacctgaga 240
gtgaatg 247

<210> 2555
<211> 268
<212> DNA
<213> Glycine max

<400> 2555

tctttatacc cccctctct tttttgcgtt cattctgttt tctgttgaa gtctttccct 60
agccaatggc caccgatcgt ttgacccggg ttcacagtct ccgtgagagg cttgatgaaa 120
ccctcactgc caacaggaat gaaattttgg cacttctgtc aaggatcgaa gccaaaggca 180
agggcatcct gcaacaccac caggtcattg ctgagtttga ggaaatccct gaggagaaca 240
gacagaagct cactgatggt gcctttgg 268

<210> 2556
<211> 260
<212> DNA
<213> Glycine max

<400> 2556

tctctttata cccccctct cttttttgcg ttcattctgt tttcctgttg aagtctttcc 60

ctagccaatg gccaccgatc gtttgaccgg ggttcacagt ctccgtgaga ggcttgatga 120
aaccctcact gccaacagga atgaaatttt ggccttctg tcaaggatcg aagccaaggg 180
caagggcatc ctgcaacacc accaggtcat tgcctgagttt gaggaaatcc ctgaggagaa 240
cagacagaag ctactgatg 260

<210> 2557
<211> 261
<212> DNA
<213> Glycine max

<400> 2557

ccccctctc ttttttgcgt tcattctggt ttctgttga agtctttccc tagccaatgg 60
ccaccgatcg tttgaccggg gttcacagtc tccgtgagag gctggatgaa accctcactg 120
ccaacaggaa tgaaattttg gcccttctgt caaggatcga agccaagggc aagggcatcc 180
tgcaacacca ccaggtcatt gctgagtttg aggaaatccc tgaggagAAC agacagaagc 240
tcactgatgg tgcctttgga g 261

<210> 2558
<211> 254
<212> DNA
<213> Glycine max

<400> 2558

ctttataccc cccctctctt ttttgcgttc attctgtttt cctgatgaag tctttcccta 60
gccaatggcc accgatcggt tgaccgggt tcacagtctc cgtgagaggc ttgatgaaac 120
cctcactgcc aacaggaatg aaattttggc ctttctgtca aggatcgaag ccaagggcaa 180
gggcatcctg caacaccacc aggtcattgc tgagtttgag gaaatccctg aggagaacag 240
acagaagctc actg 254

<210> 2559
<211> 243
<212> DNA
<213> Glycine max

<400> 2559

gcgttcattc tgttttcctg ttgaagtctt tccgtagcca atggccaccg atcgtttgac 60

ccgggttcac agtctccgtg agaggcttga tgaaccctc actgccaaca ggaatgaaat 120
 tttggccctt ctgtcaagga tcgaagccaa gggcaagggc atcctgcaac accaccaggt 180
 cattgctgag tttgaggaaa tccctgagga gaacagacag aagctcactg atgggtgcctt 240
 tgg 243

<210> 2560
 <211> 271
 <212> DNA
 <213> Glycine max

<400> 2560

ctttacaccc ccctctctat tttgcgttca ttctgttttc cagttgaagt ctttccttag 60
 ccaatggcca ctgatcggtt gacccgggtt cacagtctcc gtgagaggct tgatgaaacc 120
 ctactgccca acaggaacga aattttggcc cttctgtcaa ggatcgaagc taagggcaag 180
 gggatcctgc aacaccacca ggtcattgct gagtttgagg aaatccctga ggagaacagg 240
 cagaagctta ctgatggtgc ctttgagaa g 271

<210> 2561
 <211> 255
 <212> DNA
 <213> Glycine max

<400> 2561

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 tcgtttgacc cgggttcaca gtctccgtga gaggttgat gaaaccctca ctgccaacag 120
 gaacgaaatt ttggcccttc tgtcaaggat cgaagctaag ggcaagggga tcctgcaaca 180
 ccagcaggtc attgctgagt ttgaggaaat ccctgaggag aacaggcaga agcttactga 240
 tgggtgccttt ggaga 255

<210> 2562
 <211> 233
 <212> DNA
 <213> Glycine max

<400> 2562

ttttgcgttc attctgtttt cctggttgaag tctttcccta gccaatggcc accgatcggt 60

tgacccgggt tcacagtctc cgtgagaggc ttgatgaaac cctcactgcc aacaggaatg 120
aaatTTTggc ccttctgtca aggatcgaag ccaagggcaa gggcatcctg caacaccacc 180
aggtcattgc tgagtttgag gaaatccctg aggagaacag acagaagctc act 233

<210> 2563
<211> 262
<212> DNA
<213> Glycine max

<400> 2563

gttcattctg ttttcttgaa gtctttccct agccaatggc cactgatcgt ttgacccggg 60
ttcacagtct ccgtgagagg cttgatgaaa ccctcactgc caacaggaac gaaatTTTgg 120
cccttctgtc aaggTCgaag ctaagggcaa ggggatcctg caacaccacc aggtcattgc 180
tgagtttgag gaaatccctg aggagaacag gcagaagctt actgatgggtg cctttggaga 240
agtcttgaga tctacacagg aa 262

<210> 2564
<211> 237
<212> DNA
<213> Glycine max

<400> 2564

gcgttcattc tgTTTTcctg ttgaagtctt tccctagcca atggccatcg atcgTTtgac 60
ccgggttcac agtctccgtg agaggcttga tgaaaccctc actgccaaca ggaatgaaat 120
tttggccctt ctgtcaagga tcgaagccaa gggcaagggc atcctgcaac accaccaggt 180
cattgctgag tttgaggaaa tccctgagga gaacagacag aagctcactg atggtgc 237

<210> 2565
<211> 268
<212> DNA
<213> Glycine max

<400> 2565

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ccaatggcca ctgatcgttt gacccgggtt cacagtctcc gtgagaggct tgatgaaacc 120
ctcactgcc aacaggacgaa attttggccc ttctgtcaag gatcgaagct aagggcaagg 180

ggatcctgca acaccaccag gtcattgctg agtttgagga aatccctgag gagaacaggc 240
agaagcttac tgatggtgcc tttggaga 268

<210> 2566
<211> 268
<212> DNA
<213> Glycine max

<220>
<221> unsure
<222> (1)..(268)
<223> unsure at all n locations

<400> 2566

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ccctagccaa tggccactga tcgtttgacc cgggttcaca gtctccgtga gaggcttgat 120
gaaaccctca ctgccaacag gaacgaaatt ttggcccttc tgtcaaggat cgaagctaag 180
ggcaagggga tcctgcaaca ccaccaggtc attgctgagt ttgagganat ccctgaggag 240
aacaggcaga agcttnctga tggngnct 268

<210> 2567
<211> 237
<212> DNA
<213> Glycine max

<400> 2567

cgttcattct gttttcctgt tgaagtcttt ccctagccaa tggccaccga tcgtttgacc 60
cgggttcaca gtctccgtga gaggcttgat gaaaccctca ctgccaacag gaatgaaatt 120
ttggcccttc tgtcaaggat cgaagccaag ggcaagggca tcctgcaaca ccaccaggtc 180
attgctgagt ttgaggaaat ccctgaggag aacagacaga agctcactga tgggtgcc 237

<210> 2568
<211> 261
<212> DNA
<213> Glycine max

<400> 2568

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agccaatggc cactgatcgt ttgaccggg ttcacagtct ccgtcagagg cttgatgaaa 120

ccctcactgc caacaggaac gaaattttgg cccttctgtc aaggatcgaa gctaagggca 180
acgggatcctt gcaacaccac caggtcattg ctgagtttga ggaaatccct gaggagaaca 240
ggcagaagct tactgatggt g 261

<210> 2569
<211> 263
<212> DNA
<213> Glycine max

<400> 2569

acacccccct ctctattttg cgttcattct gttttacagt tgaagtcttt ccatagccaa 60
tggccactga tcgtttgacc cgggttcaca gtctccgtga gaggcttgat gaaaccctca 120
ctgccaacag gaacgaaatt ttggcccttc tgtcaaggat cgaagctaag ggcaagggga 180
tcttgcaaca ccaccaggtc attgctgagt ttgaggaaat cctgaggaga acaggcagag 240
cttactgatg gtgctatgga gaa 263

<210> 2570
<211> 229
<212> DNA
<213> Glycine max

<400> 2570

ctgttttcca gttgaagtct ttccctagcc aatggccact gatcgtttga cccgggttca 60
cagtctccgt gagaggcttg atgaaaccct cactgccaac aggaacgaaa ttttgccct 120
tctgtcaagg atcgaagcta agggcaaggg gatcctgcaa caccaccagg tcattgctga 180
gtttgaggaa atccctgagg agaacaggca gaagcttact gatggtgcc 229

<210> 2571
<211> 265
<212> DNA
<213> Glycine max

<220>
<221> unsure
<222> (1)..(265)
<223> unsure at all n locations

<400> 2571

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 gaaaccctca ctgccaacag gaacgaaatt ttggcccttc tgtcaaggat cgaagctaag 180
 ggcaagggga tcctgcaaca ccaccaggtc attgctgagt ttgaggaaat ccctgaggag 240
 aacaggcaga agcttactga tgggtg 265

<210> 2572
 <211> 264
 <212> DNA
 <213> Glycine max

<400> 2572

gttcattctg ttttcttgaa gtctttccct agccaatggc cactgatcgt ttgacccggg 60
 ttcacagtct ccgtgagacg cttgatgaaa ccctcactgc caacaggaac gaaattttgg 120
 cccttctgtc aaggatcgaa gctaagggca aggggatcct gcaacaccac caggtcattg 180
 ctgagtttga ggaaatccct gaggagaaca ggcagaagct tactgatggg gcctttggag 240
 aagtcttgag atctacacag gaag 264

<210> 2573
 <211> 252
 <212> DNA
 <213> Glycine max

<400> 2573

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 agccaatggc caccgatcgt ttgacccggg ttcacagtct ccgtgagagg cttgatgaaa 120
 ccctcactgc caacaggaat gaaattttgg cccttctgtc aaggatcgaa gccaaaggga 180
 agggcatcct gcaacaccac caggtcattg ctgagtttga ggaaatccct gaggagaaca 240
 gacagaagct ca 252

<210> 2574
 <211> 242
 <212> DNA
 <213> Glycine max

<400> 2574

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tagcaaattg ccaccgatcg tttgacccgg gttcacagtc tccgtgagag gcttgatgaa 120
accctcactg ccaacaggaa tgaaattttg ggccttctgt caaagatcga agccaagggc 180
caaggcatcc tgcaacacca ccaggtcatt gctgaatttg aggaaatccc tgaggagaac 240
ag 242

<210> 2575
<211> 269
<212> DNA
<213> Glycine max

<400> 2575

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gccagtgggc accgatcggt tgacccgggt tcacagtctc cgtgagaggc ttgatgaaac 120
cctcactgcc aacaggaatg aaattttggc ccttctgtca aggatcgaag ccaagggcaa 180
gggcatcggt caacaccacc aggtcattgc tgagtttgag gaaatccctg atgagaacag 240
acagaagctc actgatgggt cctttggag 269

<210> 2576
<211> 255
<212> DNA
<213> Glycine max

<400> 2576

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ttgacgtctt tccctagcca atggccactg atcgcttgac ccgggttcac agtctccgtg 120
agaggcttga tgataccctc actgccaaca ggatcgaaat tttggccctt ctgtcaagga 180
tcgaagctaa gggcaagggg atcctgcaac accaccaggt cattgctgag tttgaggaaa 240
tccctgagga gaaca 255

<210> 2577
<211> 142
<212> DNA
<213> Glycine max

<400> 2577

acccccctct ctatcttgcg ttcattctgt tttccagttg aagtctttcc ctagccaatg 60
 gccactgatc gtttgacccg gggtcacagt ctccgtgaga ggcttgatga aaccctcact 120
 gccaacagga acgaaatttt gg 142

<210> 2578
 <211> 158
 <212> DNA
 <213> Glycine max

<400> 2578

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 caatggccac tgatcgtttg acccggttc acagtctccg tgagaggctt gatgaaaccc 120
 tcaactgcaa caggaacgaa attttggccc ttctgtca 158

<210> 2579
 <211> 132
 <212> DNA
 <213> Glycine max

<400> 2579

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 cctagccaat ggccactgat cgtttgaccc gggttcacag tctccgtgag aggcttgatg 120
 aaacctcac tg 132

<210> 2580
 <211> 259
 <212> DNA
 <213> Glycine max

<400> 2580

gtgcccttga aaatgagatg ctccctcgga tcaagaaaca gggacttgat ttcactcaa 60
 gaattctaag agttaccagg ttaatacctg atgcaaaggg gacaacatgc aaccagcggc 120
 tagaaagagt cagtggact gaccatactc atattttgcg agttccatc agatcagagt 180
 caggaactct ccgtaaatgg atttcaaggt ttgatgtgtg gccttatcta gagacttatg 240
 cagaggatgt tgccagtga 259

<210> 2581

<211> 221
 <212> DNA
 <213> Glycine max

<400> 2581

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 atgcaaccag cggctagaaa gagtcagtgg tactgaccat actcatatTTt tgcgagttcc 120
 attcagatca gagtcaggaa ctctccgtaa atggatttca aggtttgatg tgtggcctta 180
 tctagagact tatgcagagg atgttgccag tgaaattgct g 221

<210> 2582
 <211> 437
 <212> DNA
 <213> Glycine max

<400> 2582

ctctcatgct tttttccact tgcaaacttc aaattcactc tgacagtttt tgcagctaag 60
 taagaagaac ttaacagaca tataaacata gtgatcgTTa tgtctacgca accaaagctt 120
 ggtcggattc ccagtatcag agaccgagtt gaagacactc tctctgctca ccgtaacgaa 180
 ctcatTTtctc tctctccag gtatgtggct caagggagag ggattttgca accccataat 240
 ttgattgatg aacttgacaa catccctggc gatgatcaag caatagtgga tcttaaaaat 300
 ggtccctttg gtgaaatcgt caagtctgca aaggaagcca tagttttgcc tccttttgtg 360
 gcaatagcag ttcgtccaag acctggtgTT tgggaatatg tccgtgTTaa tgtctctgag 420
 ctcagcgtgg agcaatt 437

<210> 2583
 <211> 394
 <212> DNA
 <213> Glycine max

<400> 2583

cacgcgtcag ggataccttg cagcccttgc ttgatttcoct ccgagctcac aaatacaagg 60
 gccatgctct gatgttaaAT gatagaatac aaaccatttc caaacttcag tctgcattgg 120
 ccaaggctga ggattatctc tctaagcttg cacatgatac actctattca gagtttgaat 180
 atgtattgca aggaatgggt tttgagagag gttggggTTga tactgctgaa cgggtattgg 240

aaatgatgca tctgctattg gatattcttc aggctcctga tccttctaca ctagagactt 300
 ttcttgggag agtaccaatg gtattcaatg ttgctatatt atctcctcat ggctactttg 360
 gacaagccaa tgtcttgggt ttgcctgaaa ctgg 394

<210> 2584
 <211> 391
 <212> DNA
 <213> Glycine max
 <400> 2584

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 cctgatcgag acctacaagt tgaacgggca attcagatgg atttcatctc agatgaaccg 120
 tgtgaggaac ggagagctgt accgtgtgat ctgcgacacc aaggagctt tcgtgcagcc 180
 ggctatatac gaggcttttg gtttgacagt ggttgaggcc atgacttgtg ggttgccaac 240
 attcgccaca tgcaatgggtg gtcttgctga gatcattgtg catggcaagt ctggcttcca 300
 cattgaccct taccatgggtg accgtgctgc tgatctcctt gttgacttct ttgagaagtg 360
 caagcttgac ccaaccact gggaaacaat c 391

<210> 2585
 <211> 398
 <212> DNA
 <213> Glycine max

<220>
 <221> unsure
 <222> (1)..(398)
 <223> unsure at all n locations
 <400> 2585

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 gacgacagaa ggggtacggc ctgatcgaga cccacaagtt gaacggccaa ttcagatgga 120
 tttcatcgca gatgaaccgt gtgaggaatg gagagctcta ccgctgatac tgcgacacca 180
 ggggtgcttt cgtgcagcct gctgtatacg aggcttttgg tttgacagtg gttgaggcca 240
 tgacttgagg cttgccaaca ttcgccacat gcaatgggtg tcctgctgag atcattgtgc 300
 acggcaagtc tggcttccac attgaccctt accatgggtga ccgtgctgct gatctccttg 360
 ttgacttctt tgagaagtgc angcttganc caactcac 398

<210> 2586
 <211> 415
 <212> DNA
 <213> Glycine max

<220>
 <221> unsure
 <222> (1)..(415)
 <223> unsure at all n locations

<400> 2586

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cctcgtattc tcattattac tcgtcttctc cctgatgcag taggaactac ctgtggccaa 120
cgtctagaga gggatatatga tactgaatat tgtgacattc tccgagttcc tttcagaacc 180
gaaaagggaa ttgttcgcaa atggatctca agattcgaag tctggccata cctagagact 240
tacactgagg atgttgccct tgaacttgcc aaggagttgc aagccaagcc agatctgac 300
gttgaaaact acagtgatgg aaacattggt gcctctttgt tagcacatan attaggagta 360
actcagtgtg ccattgctca tgctctagaa aagaccaagt accctgagtc tgaca 415
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<210> 2587
 <211> 403
 <212> DNA
 <213> Glycine max

<400> 2587

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tatcatcacc agcaccttcc aagagattgc tggaagcaag gacactgttg gacagtatga 120
gagtcacact gccttcaccc ttccaggact ttaccgtgtt gttcacggta ttgatccatt 180
tgatccaaag ttcaacattg tctctcccg tgcagacatg ggtatatact tcccatacac 240
tgaaactgag cgtaggttaa cagaattcca ctctgacatt gaagagcttc tttacagctc 300
agtggagaat gaggaacaca tatgcgtatt gaaggaccgc aacaaaccaa taatcttcac 360
catggcaagg cttgaccgtg tgaagaacaa cacggggcct gtc 403
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<210> 2588
 <211> 417
 <212> DNA

<213> Glycine max

<400> 2588

acgtacggct gcgagaagac gacagaaggg gatggaaaca ttgttgctc tttgttagca 60
cataaattag gagtaactca gtgtaccatt gctcatgctc tagaaaagac caagtaccct 120
gagtctgaca ttacttgga aaaatttgaa gagaaatata acttctcatg ccaatttact 180
gctgatcttt ttgcaatgaa ccacacagac tttatcatca ccagcacctt ccaagagatt 240
gctggaagca aggacactgt tggacagtat gagagtcaca ctgccttcac ccttccagga 300
ctctaccgtg ttgttcacgg tattgatccc tttgatccaa agttcaacat cgtctcttcc 360
ggttgccgac atgagcataa acttcgcata cactgaaact gagcgtaggt taacaga 417

<210> 2589

<211> 455

<212> DNA

<213> Glycine max

<400> 2589

caggtacacg tggaagatth attccgaaag gcttatgact ttggcgggag tttatagttt 60
ctggaaatgc gtttccaaat tagagaggcg tgaaactcga cgatatcttg agatgttcta 120
tatactcaag ttccgtgatt tggcaaattc tgttccgcta gctaaggatg atgcaagtta 180
actagctata taatttcacc aaaggcttga cagcagacat aataagagtc atttatgtaa 240
atataatagt ctgcttctcg tgttttgaaa tctagtgagg cgacctagag gagtttcatg 300
gaagacttgt cttgtctatg ttaacttcga ttatgtaaga gatggcgagc actggttgtt 360
gaatttggat gtctcttgtt ttcgtttgat tagtagtcat caatgatata gacctggaaa 420
ttacctgtga cttgaggatg ttatccttac tgatg 455

<210> 2590

<211> 381

<212> DNA

<213> Glycine max

<400> 2590

gttcattctg ttttccagtt gaagtctttc cctagccaat ggccactgat cgtttgaccc 60
gggttcacag tctccgtgag aggcttgatg aaacctcac tgccaacagg aacgaaattt 120

tggcccttct gtcaaggatc gaagctaagg gcaaggggat cctgcaacac caccaggtca 180
 ttgctgagtt tgaggaaatc cctgaggaga acaggcagaa gcttactgat ggtgcctttg 240
 gagaagtctt gagatctaca caggaagcca tagttttgcc accatggggt gctctggctg 300
 ttcgtccaag gcctgggtgtg tgggagtacc tgaaagtgaa tgtgcacgct cttgttggtg 360
 aggagttgca acctgctgag t 381

<210> 2591
 <211> 276
 <212> DNA
 <213> Glycine max

<220>
 <221> unsure
 <222> (1)..(276)
 <223> unsure at all n locations

<400> 2591

gttgatgcta ttatcaagtg tcaaggctct cctacaacat caggatacat ggttgtaaata 60
 atggaatggg gaaacttttg gtcattctcat ttaccaagaa catcttatga tattgattta 120
 gactctgaaa gccctaattc aaatgatcag ggttttgaga aaatgatatc tggaatgtat 180
 cttggtgaca tcgtgaggag agtcatncta aggatgncgc tagagncnnt ntnnctngnn 240
 ccnattcttc caaactttca agccnntatg ctgagg 276

<210> 2592
 <211> 153
 <212> DNA
 <213> Glycine max

<400> 2592

gttgaagaag ccctactctc tcgacgcctc tttcctctcc gacatcgaga acgacccctt 60
 cgagaacctg caagagactc acgatatctt cgtcaaccag atgggtatca agcccattgg 120
 gcttaagtta gagtttccgg ggggttttcg aaa 153

<210> 2593
 <211> 223
 <212> DNA
 <213> Glycine max

<400> 2593

ccgggcttcc catgataccc agctatgttg aaaatcttcc cactgggaat gagaaaggg 60
 tgttttatgc cttggatctc ggaggaacca acttccgtgt gctgaggggtg cagttgggtg 120
 gcaaagatga gcgtgtcatt gccaccgagt ttgatcaagt ttccatacct catcaactca 180
 tgtttgctac atctcaggag ctgtttgatt tcattgcttc ggg 223

<210> 2594
 <211> 257
 <212> DNA
 <213> Glycine max
 <400> 2594

tgcacgcggg tcttgcttct gaagggtggca gcaagctcaa gatgttgatc acttatgttg 60
 ataatctccc ttctggggat gagaaaggac tcttttatgc attagacctt ggtggcacia 120
 acttccgaac ccttcgcgtg catttaggtg ggaaggagaa aggtgttgctc aaaatagagt 180
 ctgatgaagt ttccattcct cctcatttga tgactgggttc ttcacaagaa ttatttgatt 240
 ttatagcatc taaacta 257

<210> 2595
 <211> 246
 <212> DNA
 <213> Glycine max
 <400> 2595

atttgatgac tggttcttca caagaattat ttgattttat agcatctaaa ctagcaaaat 60
 tcgttagttc tgagcctgaa gagttacacc ctccccctgg cagacaaagg gaattgggtt 120
 ttaccttctc atttccagtg aggcaaacad caattgcatc tgggaatata ataaagtgga 180
 ctaaagggtt caatcttgag gatgcgggtg gagaagatgt ggtgggtgaa ctgaccaagt 240
 ccttag 246

<210> 2596
 <211> 262
 <212> DNA
 <213> Glycine max
 <400> 2596

gcagattcta caatcaggat gtcattgctg ctgtgattct tggtagtggg acaaatgcag 60

catatgtaga acgagcacat gctattccaa aatggcatgg gcttatacca aaatcaggag 120
 atatggttat aaacatggag tgggggtattt cccgatcatca catcttcctc taacagaata 180
 tgatctagct ccggatgctc agagcttaaa ccctggagaa cagatttttg agaaattgat 240
 ttctggcatg tatttggggg aa 262

<210> 2597
 <211> 254
 <212> DNA
 <213> Glycine max

<400> 2597

atcggttggg aggctgaggc aggtggtgga tgctatggcc gttgagatgc acgctgggtt 60
 ggcatacagaa ggtggttcca agctcaaaat gcttctcaca tatgttcata atctccctaa 120
 tgggactgag aaaggaacat attatgcact agatcttggg ggtactaatt ttcgggtttt 180
 gcgggttcat ttgcatggtc aacaatcttc tgttttggaa catgaagtag agcgacaccc 240
 attcctcaaa atct 254

<210> 2598
 <211> 267
 <212> DNA
 <213> Glycine max

<220>
 <221> unsure
 <222> (1)..(267)
 <223> unsure at all n locations

<400> 2598

ctcccatcag aggacaaagc ttccgacttt gcgggattcg ttcgtatttg tttcagtgct 60
 gtgatgggga aggtcgcggt gggagctgcc gttgtctgcg ccgccgccgt atgcgctgcg 120
 gcggcgctgg tgggtgcgcca ccgcatgatt cgttcccgga agtggagtcg cgccatggcg 180
 atactgaagg agtttgagga gaagtgtggc accccaattg tgaagctaag acaagtgcgc 240
 tgatgccatg gatnttgaga tcacgcg 267

<210> 2599
 <211> 252
 <212> DNA

<213> Glycine max
 <400> 2599
 gttacaccct ccccttgga gacaaaggga actgggtttt acattctcat ttccagtga 60
 gcaaacatcc atagcatctg ggactctaataaagtggaact aaaggtttca atattgagga 120
 tgcggttgga gaagatgtgg tgggtggact aaccaagtcc ttagaaaaaa ttggtctgga 180
 tatgcgtggt gcagctctag ttaatgacac agttggaact gtggctagag ctagattcag 240
 caatcaggat gt 252

<210> 2600
 <211> 250
 <212> DNA
 <213> Glycine max
 <400> 2600
 tgaagatgcg gttggtgaag atgtggtggg agaactaacc aagtccatgg aaaaaattgg 60
 cctggatatg cgcgttgctg ctctagtcag tctcactctc ctctcttttg gatttcttta 120
 ttttttatag ccgatttga gcatgatggg ttccagtttg tgtctgacag aaatttggag 180
 ttataagggt aatgatacca ttggaacatt agctggaggc agattctaca atcaggatgt 240
 cattgctgct 250

<210> 2601
 <211> 252
 <212> DNA
 <213> Glycine max
 <220>
 <221> unsure
 <222> (1)..(252)
 <223> unsure at all n locations
 <400> 2601
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 gatattgttg ctaatcgggg agcccgcctt tctgctgctg gtatttttgg catcctcaag 120
 aaaataggaa gagacacagt aaaggacggg aagaaatcag tagtagcact ggatggagga 180
 ttgtttgaac actatactaa ttcagagttc cttggagagt acaaaaaggt ttttgggnaa 240
 cnccccncac ca 252

<210> 2602
 <211> 268
 <212> DNA
 <213> Glycine max

<400> 2602

cgataatctc ccaactgggg atgaggaagg cctctattat gcattggatc ttggcggcac 60
 aaacttccgt gtccttcgtg tacatttagg ggggaaagac aaaggtgtta tcggccagga 120
 gtttgaagaa gtttcaattc ctccaaattt gatgactggc tcttcagatg cattgttcga 180
 ttttatagca gcaggtcctg caaagtttgt tgggtcagaa ccctgaaggt ttcattctcc 240
 cctgggaaga caagaggact gggtttac 268

<210> 2603
 <211> 268
 <212> DNA
 <213> Glycine max

<400> 2603

attttgggca tccttaagaa aataggaaga gacacgggta aggttgggga gaagcaaaag 60
 tcagtgatag ctttggatgg gggattgttt gaacactaca ccaaatttag agaatgcttg 120
 gagggtagcc tgaaggaatt gctgggagat gaggctgctg agaccattgt cattgagcat 180
 gctaattgat gctctggcat tgggtgcagc ctctggcag cttctcactc ccaatatttg 240
 ggagtggagg agtcttaaatt tttattgc 268

<210> 2604
 <211> 224
 <212> DNA
 <213> Glycine max

<400> 2604

ctcaaacaca tcccttaaaa tgaggaagat cgttgttgaa ctgtgtgaca ttgttgctac 60
 tcgaggagct cggcttgctg ctgctggat tttgggcac cttaagaaaa taggaagaga 120
 cacagttaag gttggggaga agcaaaagtc agtgatagcg ttggatgggg ggttggttga 180
 acactacacc aaatttagag aatgcttgga gactgcactg aagg 224

<210> 2605
 <211> 265
 <212> DNA
 <213> Glycine max

 <400> 2605

 cgatctgcac gctgggttgg catcagaagg tggttctaaa ctcaaaatgc ttataacatt 60
 tgttcataat ctccctaattg ggactgagaa aggaacatat tatgcactag atcttggggg 120
 taaaaatttt agggttttgc gggttcattt gcatgggtcaa caatcgtctg ttttgggaaca 180
 tgaagtagag cgacagccca ttcctcaaca tctaatagacc agcacaagtg aggatctctt 240
 tgatttcctt gcttcttcat taaag 265

<210> 2606
 <211> 266
 <212> DNA
 <213> Glycine max

 <220>
 <221> unsure
 <222> (1)..(266)
 <223> unsure at all n locations

 <400> 2606

 accaagtcca tggaaaaaat tggcctggat atgcgcggtg ctgctctagt taatgatacc 60
 attggaacat tagctggagg cagattctac aatcaggatg tcgttgctgc tgtgattctt 120
 ggtactggga caaatgcagc atatgtagaa cgtgcacatg ctattccaaa atggcatggc 180
 cttataccnn aatcaggaga tatggttata aacatggagt ggggtaattt cccatcatca 240
 catcttcttc taacagaata tgatct 266

<210> 2607
 <211> 261
 <212> DNA
 <213> Glycine max

 <400> 2607

 gtttggaaaa tctgtccgc agacactatc tacacctttc atactcggga cctcagatct 60
 atgtgccatg caacaggact gttctggcga tttacatgca gttgggtctc tcctctacga 120
 taaagcaggg gttgaatcca atttaagtga aagagaaaca gttttggagg tttgtgagac 180

tattgtaaag cgaggcggga gcttagctgg tgcaggaata gtggggattc tacaaaaaat 240
ggaagaggac cagagaggtc t 261

<210> 2608
<211> 268
<212> DNA
<213> Glycine max

<400> 2608

tctcgagccg ctcgagccgc ggctcgagaa ttgtagacg agtgcacgct ggaaatggct 60
gaagacgggtg acctgttttg aaaatctatc ccgcagacac tatctacacc tttcatactc 120
gggacctcag atctatgtgc catgcaacag gactgttctg gcgatttaca tgcagttggg 180
tctctcctct acgataaagc aggggttgaa tccaatttaa gtgaaagaga aacagttttg 240
gaggtttgtg agactattgt aaagcgag 268

<210> 2609
<211> 261
<212> DNA
<213> Glycine max

<400> 2609

caagaaaata ggaagagaca cagtaaagga cgggaagaaa tcagtagtag cactggatgg 60
aggattgttt gaacactata ctaaattcag aagttccttg gagagtacac taaaggagtt 120
gttgggagat gaggcagctg agacaattgg cattgagcag tctaattgatg gctctggaat 180
tggagcagcc ctctggcag cttctcactc ccagtatttg gaagtgcagg agtcctgaag 240
atgtgggttaa tgtcaaggta a 261

<210> 2610
<211> 264
<212> DNA
<213> Glycine max

<220>
<221> unsure
<222> (1)..(264)
<223> unsure at all n locations

<400> 2610

cgggnagaaa tcagtagtag cacngcatgg nggattgnnc cnacactata ctncattca 60

gaagttcctt ggagagtaca ctaaaggagt tggtgggcnt gaggcagctg ngacaattgg 120
cattgagcag tntaatgatg gctncggaat tggagcagcc ctcttggcag cttctcactc 180
ccagtatttg gaagtgcagg agtcctgaag atgtggttta atgncanggt aaatcagtgt 240
aacatagttt cattttttga tacc 264

<210> 2611
<211> 247
<212> DNA
<213> Glycine max

<400> 2611

cccaaattga aagttccttt catacttagg acgcctgaca tgtcagccat gcaccatgac 60
acaagttctg atctgaaagt ggttggaac aagttaaagg atatattaga gatctcaaac 120
acatccttaa aatgaggaag atcggtgttg aactgtgtga cattgttgct actcgcgag 180
ctcggttgc tgctgctggt attttgggca tccttaagaa aataggaaga gacacagtta 240
aggttgg 247

<210> 2612
<211> 247
<212> DNA
<213> Glycine max

<400> 2612

gaagttgtaa ggagagcttt attgaagatg gccgaagaag ctgacttttt tggcgatact 60
gtgcccccca aattgaaagt tcctttcata cttaggacgc ctgacatgtc agccatgcac 120
catgacacaa gttctgatct gcaagtgggt ggaaacaagt taaaggatat attagagatc 180
tcaaacacat cccttaaaat gaggacgatc gttgttgaac tgtgtgacat tgttgctact 240
cgcgag 247

<210> 2613
<211> 278
<212> DNA
<213> Glycine max

<400> 2613

cggctcgagt tcacagattt ttgagaaatt gatttctggc atgtatttgg gggaaattgt 60

aaggagagct ttatttaaga tggccgaaga agctgatttt tttggagata ctgttcccc 120
 caaattgaaa gttcctttca tacttaggac gctgacatg tcagccatgc accatgacac 180
 aagttctgat ctgaaagtag ttggaacaa attaaaggat atattagaga tctctaacac 240
 atccctaaaa atgaggaaga ttgttgttg actgtgtg 278

<210> 2614
 <211> 249
 <212> DNA
 <213> Glycine max
 <400> 2614

tgcccaaat accagcagca gcaagccgag ctccgcgagt agcaacaatg tcacacagtt 60
 caacaacgat cttcctcatt ttaagggatg tgtttgagat ctctaataa tcctttaact 120
 tgtttccaac cactttcaga tcagaacttg tgtcatggtg catggctgac atgtccaggc 180
 gtcctaaaga aaattatgtc agaactcaa aagctctatt tcaacaaaag gtaatgtgtt 240
 caaatgaag 249

<210> 2615
 <211> 255
 <212> DNA
 <213> Glycine max
 <400> 2615

ggtcgcgtgg tggctattgt gaaagagttt gaggagcagt gtaggacccc aattgggaag 60
 ctgagacagg ttgctgacgc catggacgtt gagatgcacg cgggtcttgc ttctgaaggt 120
 ggcagcaagc tcaagatgtt gatcacttat gttgataatc tcccttctgg ggatgagaaa 180
 ggactctttt atgcattaga ccttggtggc acaaacttcc gaacccttcg cgtgcattta 240
 ggtgggaagg agaaa 255

<210> 2616
 <211> 248
 <212> DNA
 <213> Glycine max
 <400> 2616

gcggcgcggt gtgctgcggt ggcgctggtg gtgcgcaccg atgatgagct ccggaaagtg 60

gggtcgctg gtggctattg tgaaagagtt tgaggagcag tgtaggaccc caactgggaa 120
gctgagacag gttgctgacg ccatggacgt tgagatgcac gcgggtcttg cttctgaagg 180
tggcagcaag ctcaagatgt tgatcactta tgttgataat ctcccttctg gggatgagaa 240
aggatctt 248

<210> 2617
<211> 263
<212> DNA
<213> Glycine max

<220>
<221> unsure
<222> (1)..(263)
<223> unsure at all n locations

<400> 2617

atgaggagct ccggaagtg gggtcgctg gtggctattg tgaaagagtt tgaggagcag 60
tgtaggaccc caattgggaa gctgagacag gttgctgacg ccatggacgt tgagatgcac 120
gcgggtactg cttctgaagg tggcagcaag ctcaagatgt tgatcactta tgttgataat 180
ctccctctgg ggatgagaaa ggactcttta tgcnttagac ctggtggcac aaacttccga 240
accctcgctg cattagtggg aag 263

<210> 2618
<211> 143
<212> DNA
<213> Glycine max

<400> 2618

cagtgttgga ccccaatttc gaagctgaga caggttgctg atgccctgga cgttgagatg 60
cacgctggtc ttgcttctga aggtggatgt aagctcaaga tgttgatcac ttatgttgat 120
aatctccctt ctggggatga gaa 143

<210> 2619
<211> 279
<212> DNA
<213> Glycine max

<220>
<221> unsure

<222> (1)..(279)
 <223> unsure at all n locations
 <400> 2619
 cggtcgtttg cncggcggcg gcgtgtgctc ncngtggcgc tgggtggtgcg ccancgcatg 60
 angagctccg gaaagtgggg tcgctgtgtg gctattgtga aacagtttga ggagcagtgt 120
 aggaccccaa ttgggaagct acgacagttg ctgacgccat ggacgttgag atgcacgcgg 180
 gtcttgcttc tgaaggtggc agcaagctca agatgttgat cacttatgtt gataatctcc 240
 cttctgggga tgagaaagga ctcttttatg cattagacc 279

<210> 2620
 <211> 289
 <212> DNA
 <213> Glycine max

<220>
 <221> unsure
 <222> (1)..(289)
 <223> unsure at all n locations

<400> 2620
 catcaattgc atctgggaat ataataaagt ggactaaagg tttcaatatt gaggatgcgg 60
 ttngagaaag atgtngtggg tgaactgncc aagtccttag naaaaattgg tctggatatg 120
 catgttgcag ctctagttaa tgacacagtt ggaacagtgg ctagagcaag attcagcaat 180
 caggatgtca ttgctggant gantcttggg actgggacaa atgcagctta tgtagagtgt 240
 gcacatgcaa ttccacaatg gcatggtctt ctacccaaaat caggagacc 289

<210> 2621
 <211> 264
 <212> DNA
 <213> Glycine max

<400> 2621
 actcgagccg attcggtctg agtgaggatg cggttgagga agatgtactg ggtggactaa 60
 ccacagtctt agaaaaaatt ggtctggata tgcgtgttgc agctctagtt aatgacacag 120
 ttggaactgt ggctagagct agattcagca atcaggatgt cattgctgga gtgattcttg 180
 gtacagggac aaatgcagct tatgtagagt gtgcacatgc aattccaaaa tggcaaggtc 240

ttctaccaaa atcaggagag atgg 264

<210> 2622
 <211> 270
 <212> DNA
 <213> Glycine max

<400> 2622

gagaacagat ttttgagaag ataatttctg gtatgtatattt gggtgaaatt gtaaggagag 60
 ttttgttgaa gttggctgaa gaagttgact tctttggaga tactgttcct ccaaaattga 120
 gaattccttt cgtacttagg acacctgaca tgtctgcaat acatcaagat acatcttcag 180
 atctgaaggt ggttggaac aaattgaagg atatattaga gatcaataac acatccctga 240
 aaatgaggaa gattgttgtg gaactctgtg 270

<210> 2623
 <211> 273
 <212> DNA
 <213> Glycine max

<400> 2623

atttctggta tgtatttggg tgaaattgta aggagagttt tggtgaagtt ggctgaagaa 60
 gttgacttct ttggagatac tggtcctcca aaattgagaa ttcctttcgt acttaggaca 120
 cctgacatgt ctgcaatata tcaagatata tcttcagatc tgaagggtgg tggaaacaaa 180
 ttgaaggata tattagagat caataacaca tccctgaaaa tgaggaagat tgttgtggaa 240
 ctctgtgata ttgttgctaa tcggggagcc cgc 273

<210> 2624
 <211> 267
 <212> DNA
 <213> Glycine max

<400> 2624

cagagaggtc tcgtcttttg gaatgggaag agaagtgttg ttgccattga tgggggctta 60
 tatgaaaatt atcctcaata cagggcttat ttgcaagatt cagtcacaga gctgctagga 120
 acagaaaagt caaacaatgt ggtgatagag cataactaaag atggatctgg aataggagct 180
 gctctattgg ctgcttcaaa ctccatgtac aaccaagact tatagtccat tatcatgcaa 240

ataaaaaattg aaggaataat ccatttt 267

<210> 2625
 <211> 280
 <212> DNA
 <213> Glycine max

<400> 2625

cagagaggtc tcgtcttttg gaatgggaag agaagtgttg ttgccattga tgggggctta 60
 tatgaaaatt atcctcaata cagggttat ttgcaagatt cagtcacaga gctgctagga 120
 acagaaaagt caaacaatgt ggtgatagag cataactaaag atggatctgg aataggagct 180
 gctctattgg ctgcttcaaa ctccatgtac aaccaagact tatagtccat tatcatgcaa 240
 ataaaaattg aaggaataat ccatttttcc tttgtatat 280

<210> 2626
 <211> 248
 <212> DNA
 <213> Glycine max

<400> 2626

ttgaaaacaa gtccacagta cttttttatg gtggtggggc ttagttgct gtttggtat 60
 cgtcgattct tgtgagcgcc atcaactctg ttcccttgct tccaagatt atggagttgg 120
 tggggctagg gtacactgga tggtttgtct accgatacct tctgtttaag tctagcagga 180
 aggagctagc tacagacatt gagtcactga agaagaaaat tactggaact gaatagagtg 240
 gtgttagc 248

<210> 2627
 <211> 234
 <212> DNA
 <213> Glycine max

<400> 2627

cttatcttcc ctcaaccact tctcagtgtc ccgaaaatct tctcaccttc agaccagagc 60
 ttcttcagag gaatcatcct cagtagatgc caatgaggtg ttcacagatt tgaaggaaaa 120
 gtgggatgct cttgaaaaca agtccacagt acttttttat ggtggtgggg ctttagttgc 180
 tgtgtggcta tcgtcgattc ttgtgagcgc catcaactct gtcccttgcc ttcc 234

<210> 2628
 <211> 430
 <212> DNA
 <213> Glycine max

<400> 2628

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gtgatccttg gtacggggac aaatgcacct tatgtagagt gtgcacatgc aattccaaaa 120
tggcatggtc ttctaccaa atcaggagag atggttatta acatggagtg gggtaatttc 180
cgttcctcgc atcttcctct aacagaatat gatcatgctc tagatgcaga gagcttaaac 240
cctggagaac agatTTTTga gaagataatt tctggtatgt atttgggtga aattgtaagg 300
agagttttgt tgaagttggc tgaagaagtt gacttctttg gagatactgt tcctccaaaa 360
ttgagaattc ctttcgtact taggacacct gacatgtctg caatacatca agatacatct 420
tcagatctga 430
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<210> 2629
 <211> 413
 <212> DNA
 <213> Glycine max

<220>
 <221> unsure
 <222> (1)..(413)
 <223> unsure at all n locations

<400> 2629

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agcccacgcg tccgtacggc tgcgagaaga cgacagaagg ggttggatgg ggggttgttt 60
gaacactaca ccaaatttag agaatgcttg gagagtgcac tgaaggaatt gctgggagat 120
gaggctgctg agaccattgt cattgagcat gctaataatg gctctggcat tgggtgcagcc 180
ctcctggcag cttctcactc ccaatatTTg ggagtggagg agtcttaa at tttattgcca 240
aacaagggaa agacgtgtaa tactagtttc atTTTTtgca taggtggtag atcaacacat 300
tgaagcaatg gtgccttgca gctggtgact gggggggcat tcattatttt ggtttcagt 360
tntgtttctc cctcgtttaa gggaatatat caaagatata aacttcacct tga 413
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<210> 2630
 <211> 402

<212> DNA
 <213> Glycine max
 <400> 2630

tgctaatacgg ggagcccgcc tttctgctgc tggatattttt ggcacccctca agaaaatagg 60
 aagagacaca gtaaaggacg ggaagaaatc agtagtagca ctggatggag gattgtttga 120
 acactatact aaattcagaa gttccttgga gactacacta aaggagtgtg tgggagatga 180
 ggcagctgag acaattggca ttgagcagtc taatgatggc tctggaattg gagcagccct 240
 cctggcagct tctcactccc agtatttgga agtgcaggag tctgaagat gtggtttaat 300
 gtcaaggtaa atcagtgtaa cactagtttc atttttttgt atacctacta gatcaacaga 360
 ttgaaacaga aaagtcttcg ttactagtcc tagagagctt tt 402

<210> 2631
 <211> 445
 <212> DNA
 <213> Glycine max
 <400> 2631

gtccgtaaag ctgcgagaag acgacagaaa gggacatcac attttctcaa agtaatttat 60
 tacttactaa ataaatggcg gcggcagcag cagtgcaggc gctactctca tctatgattc 120
 cgaccgccac caacgttaca cgctgctctg ctttgccctc tctgcctcct cgcggcacatca 180
 acactaaaac cactttgctc ttatcttccc tcaaccactt ctcaagtgtc cgaaaatctt 240
 ctctgcttca gaccagagct tcttcagagg aatcatcctc agtagatgcc aatgaggtgt 300
 tcacagattt gaaggaaaag tgggatgctc ttgaaaacaa gtccacagta cttttttatg 360
 gtggtggggc ttttaattgct gtttggtctat cgtcgattcg tgtgagcgcc atcaactctg 420
 ttcccttgct tccaaagatt atgga 445

<210> 2632
 <211> 400
 <212> DNA
 <213> Glycine max
 <400> 2632

ggggatagat agagtgatac gcgtcacggt ttcataataa taaaaaatg gcagcggcgg 60
 cggcagtgac ggtgctactc ccacctagga ttccgaccac caccaacggt acccgctgct 120

ctgctttgcc ttctctccct cctcgcgtct ccaacaccaa aaccactttg ttctcacctt 180
ccctcaacaa cttttcagtg tcccgaataa cttctctgct tcagaccata gcttcttcag 240
aggaatcatc ctcagtagat gccaatgagg tgttcacaga tttgaaggaa aagtgggatg 300
ctcttgaaaa caagtcacac gtacttcttt atggtggaag ggctatagtt gctatttggc 360
tatcgtcaat tcttgtgagc gccatcaact cagttccctt 400

<210> 2633
<211> 413
<212> DNA
<213> Glycine max

<400> 2633

gatagataga gtgatacaca tcacattttc tcaaagtaag ttattaatta ataaataaat 60
ggcggcgggc gcggcagtg cggtgctact cccacctagg attccgaccg ccaccaacgt 120
tacccgctgc tctgctttgc cttctctgcc tcctcgcggc accaactacta aaaccacttt 180
gctcttatct tgcctcaacc acttctcagt gtcccgaata tcttctctgc ttcagaccag 240
agcttcttca gaggaatcat cctcagtaga tgccaatgag gtgttcacag atttgaagga 300
aaagtgggat gctcttgaaa acaagtcac agtacttttt tatggtggtg gggctttagt 360
tgctgtttgg ctatcgtcga ttcttgtgag cgccatcaac tctggtccct tgc 413

<210> 2634
<211> 406
<212> DNA
<213> Glycine max

<400> 2634

aaagtccaa attttttggg ttggggatag atagagtggg acgcgtcaca ttttcataat 60
aataaaaaaa tggcagcggc ggcggcagtg acggtgctac tcccacctag gattccgacc 120
accaccaacg ttaccgctg ctctgctttg cttctctccc ctctcgcgt ctccaacacc 180
aaaaccactt tgttctcacc ttccctcaac aacttttcag tgtcccgaata atcttctctg 240
cttcagacca gagcttcttc agaggaatca tcctcagtag atgccaatga ggtgttcaca 300
gatttgaagg aaaagtggga tgctcttgaa aacaagtcca cagtacttct ttatggtgga 360
ggggctatag ttgctatttg gctatcgtca attcttgtga gcgcca 406

<210> 2635
 <211> 246
 <212> DNA
 <213> Glycine max

 <400> 2635

 cggctcgagc ttctacagca ttcttctgct attcaaatac aattttcaaa ccatggcttc 60
 ctccaccaat gatatactac gaaaaggcaa cggtatatac gtgagcttcg gcgagatgct 120
 catcgatttc gtccccaccg tctccggcgt gtcccttgcg gaggctcggg ctttcttcaa 180
 ggcccccggc gtcggccccg gccaacgtcg ccatcgccgt cgcgaggctc ggcggaagg 240
 cggcgt 246

<210> 2636
 <211> 259
 <212> DNA
 <213> Glycine max

 <400> 2636

 gccatgcaga tcagcacacc tgaaggcaat ggaagttgcc agggaagcag gatgcttgct 60
 ctcttatgac ccaaacctgc ggctaccctt gtggccctcc gccgaggaag cacgtcagca 120
 aatactcagc atatgggaca aggctgatgt aatcaaggct agtgatgtgg aactggaatt 180
 cctaaccgga agtgacaaaa ttgatgatgc atctgctctc tcctgtggc accccaattt 240
 gaagttgctc cttgtcact 259

<210> 2637
 <211> 294
 <212> DNA
 <213> Glycine max

 <220>
 <221> unsure
 <222> (1)..(294)
 <223> unsure at all n locations

 <400> 2637

 aaaggtcagt gatgtggagn ttgatcaaat cancnnttct nccaaatgct gagtatttgc 60
 ttacgagctt cctcagcatt tgggagaagg ctganttgac annaggtcag tgatgtggag 120

cttgagtcc tcaccggaag tgacaagatt gatgatgaat ctgctttgtc attgtcacnc 180
 cccaatttga agttgctcct tgtcactctt ggagaacatg gttccagata ctacaccgag 240
 aatttcaaag gatcagtaga tgcttttcat gttaatacag ttgatacaac tgggt 294

<210> 2638
 <211> 295
 <212> DNA
 <213> Glycine max

<220>
 <221> unsure
 <222> (1)..(295)
 <223> unsure at all n locations

<400> 2638

cgccgacgga gagcgtgagt tcatgttcta cagaaacccc agcgccgaca tgctgcctca 60
 ccgcccgaag atctcaatct ncgaactcat cagatctggc aaaagtattc ccattatgga 120
 tcgataagct tgatacgtgg agccatgcag attcaggcaa caccctgaag ggcaatggaa 180
 gttggccagg gaaggcaggc atggcttgct cctcttatgc ancccaaaac ctgncgngct 240
 aaaccttggtg ggccctnccg gccgagcgac ggcacgtnc a gccaataacc ncnn 295

<210> 2639
 <211> 266
 <212> DNA
 <213> Glycine max

<400> 2639

ccaagattgt cgatgatcag tccatacttg aagatgaacc aagggttaaga gaagtactaa 60
 agtttgcaaa tgcattgtga gctattacaa ctacccaaaaa gggagcaatt ccggcccttc 120
 ccaaagagga ggctgcactg aaactgatca aaggggggtc acagaatctt ttggcaaaat 180
 gcaaaagtgc tagcatgatt tcgttttctt cccctaattgt ttaaattttc cgttggattt 240
 gcttgctata agtttaggag ggaact 266

<210> 2640
 <211> 205
 <212> DNA
 <213> Glycine max

<220>

<400> 2640

<210> 2641

<211> 286

<212> DNA

<213> Glycine max

<400> 2641

<210> 2642

<211> 268

<212> DNA

<213> Glycine max

<400> 2642

<210> 2643

<211> 265

<212> DNA

<213> Glycine max

<400> 2643

cggtctgagc cggcgtgtcc ctgcgcgagg ctccgggatt cctcaaggcc cccggcggcg 60
ccccccgcaa cggtgccatc gccgtcgcga gactcggcgc caaagcggcg ttcgtcggga 120
agctcggcga cgacgagttc gggcacatgc tggcccgaat cctgaaggag aacgacgtgc 180
gatccgacgg gatcaacttc gaaaagggcg cgcgcaccgc gctggcggtc gtgaccctac 240
gcgccgacgg ggagcgtgag ttcac 265

<210> 2644

<211> 263

<212> DNA

<213> Glycine max

<400> 2644

ccaacgctct tcttcccacc ggcaacagcc tcatcgtgag cttcggcgag atgctcatcg 60
atttcgtccc caccgtctcc ggcgtgtccc ttgcggaggc tccgggcttc ctcaaggccc 120
ccggcggcgc ccccgcaacg tcgccatcgc cgtcgcgagg ctccggcgaa aggcggcggt 180
cgtcggaaag ctccggcgacg acgagttcgg gcacatgctg gctgagatcc tgaaggagaa 240
cgacgtgcga tacgacggga tca 263

<210> 2645

<211> 247

<212> DNA

<213> Glycine max

<400> 2645

ctcgagccgt tctatctctg caattcaaac acaaaaacca tggttccac taatgctctt 60
cctcccaccg gcaacggcct catcgtgagc ttcggcgaga tgctcatcga cttcgttccc 120
accgtctccg gcgtgtccct cgcggaggct ccgggattcc tcaaggcccc cggcggcgcc 180
cccgccaacg ttgccatcgc cgtcgcgaga ctccggcgga aagcggcggt cgtcgggaag 240
ctcggcg 247

<210> 2646

<211> 276

<212> DNA

<213> Glycine max
 <220>
 <221> unsure
 <222> (1)..(276)
 <223> unsure at all n locations
 <400> 2646
 actaactctc tcattcttcta cagcattctt ctgcaattca aatcaaattt tcaaaccatg 60
 gcttctctcca ccaacgctct tctctccacc ggcaacggcc tcatcgtgag cttcggcgcg 120
 atgctcatcg atttcgtccc caccgtctcc gngtgtccc ttgcggaggc tccgggcttc 180
 ntcaaggccc ccggcgcgcg ncccgccaac gtcgncatcg ccgtcgcgag gtcgncgga 240
 aaggcgcggt tcgtcggnaa gtcgngacg acgagt 276

<210> 2647
 <211> 299
 <212> DNA
 <213> Glycine max
 <400> 2647
 tacagcattc ttctgcaatt caaatcaaatt ttcaaacca tggcttcctc caccaacgct 60
 cttctctcca ccggcaacgg cctcatcgtg agcttcggcg agatgctcat cgatttcgtc 120
 cccaccgtct ccggcggtgc ccttgcgag gtcggggct tctcaaggc ccccgggcg 180
 gcccccgcca acgtcgccat cgccgtcgcg aggtcggcg gaaaggcggtc gtctcgtcga 240
 aagctcggcg acgacgagtt cgggcacatg ctggctggaa cctgaaggag aacgacgtc 299

<210> 2648
 <211> 277
 <212> DNA
 <213> Glycine max
 <400> 2648
 ctcgagccgc tcgtagcatt tcggcatcca aactaactct ctcattctct acagcattct 60
 tctgcaattc aaatcaaatt ttcaaaccat ggcttcctcc accaacgctc tctctccac 120
 cggcaacggc ctcacgtga gcttcggcg gatgctcatc gatttcgtcc ccaccgtctc 180
 cggcggtgctc cttgcggagg ctccgggctt cctcaaggcc cccggcgcg ccccgccaa 240
 cgtcgccatc gccgtcgcga ggctcggcg aaaggcg 277

<210> 2649
 <211> 279
 <212> DNA
 <213> Glycine max

<400> 2649

acggctggcg agaagacgac agaagggggg agaaggctga tttgatcaag gtcagtgatg 60
 cggagcttga gttcctcaca ggaagtgaca agattgatga tgaatctgct ttgtcattgt 120
 ggcaccccaa tttgaagttg ctctttgtca ctcttgggga acatggttcc agatactaca 180
 ccaagagttt caaaggatcg gtagatgctt tccatgtcaa tacagttgat acaactgggtg 240
 ccggtgattc ctttgttggt gctttattgg ccaagattg 279

<210> 2650
 <211> 265
 <212> DNA
 <213> Glycine max

<400> 2650

gatcaaggtc agtgatgcgg agcttgagtt cctcacagga agtgacaaga ttgatgatga 60
 atctgctttg tcattgtggc accccaattt gaagttgctc cttgtcactc ttggggaaca 120
 tggttcaga tactacacca agagtttcaa aggatcggtg gatgctttcc atgtcaatac 180
 agttgataca actggtgccg gtgattcctt tgttgggtgct ttattgcca gattgtcgat 240
 gatcagtcca tacttgaaga tgaac 265

<210> 2651
 <211> 230
 <212> DNA
 <213> Glycine max

<400> 2651

tgagcatttg ggagaaggct gatttgatca aggtcagtga tgccgacttg agttcctcac 60
 aggaagtgac aagattgatg atgaatctgc tttgtcattg tggcacccca atttgaagtt 120
 gctccttgtc actcttgggg aacatggttc cagatactac accaagagtt tcaaaggatc 180
 ggtagatgct tgccatgcaa tacagttgat acaactgggtg cccggtgatc 230

<210> 2652
 <211> 241
 <212> DNA
 <213> Glycine max

 <400> 2652

 attatatttca ggctagaata ttccattatg gctccatcag cttgattgat gagccatgca 60
 agtcagctca ccttgctgct atgagcattg ccaaaaactc tggttgcatt ctatcatatg 120
 atccaaattt gagattggct ctatggcctt ctgcagacgc cgctcggaaa ggcataatgg 180
 atatatggga tcaagctgat gtcataaaga taagtgagga tgagattaca tttttgactg 240
 g 241

<210> 2653
 <211> 262
 <212> DNA
 <213> Glycine max

 <400> 2653

 ctccatcagc ttgattgatg agccatgcaa gtcagctcac cttcctgcta tgagcattgc 60
 caaaaacctg gttgcattct atcatatgat ccaaatttga gattggctct atggccttct 120
 gcagactccg ctcggaagg cataatggat atatgggatc aagctgatgt tataaagata 180
 agtgaggatg agattacatt tttgactggg ggtgatgatc cttatgatga taatgttgtt 240
 ttgaagaaac tttttcaccc aa 262

<210> 2654
 <211> 273
 <212> DNA
 <213> Glycine max

 <400> 2654

 attctcttac ccgtataaac tactattaac ttccaccaga acacgtttct gggtttcttct 60
 ggctctgcat ttaccatact ctgtttcttg gtttcaattc aatcacacac ctctttgccc 120
 tcatggccca ctttacctcc tcaggtaaata cagacaatct caccatagaa gactgtattg 180
 gaaaaagtgc gctggttgtg tgctttggtg aaattttaat agactttgtg ccaacagtgt 240
 gtggagtgtc actagctgaa gcacctgctt tca 273

<210> 2655
 <211> 272
 <212> DNA
 <213> Glycine max

 <220>
 <221> unsure
 <222> (1)..(272)
 <223> unsure at all n locations

 <400> 2655

 caagctgatg ttataaagat aagtgaggat gagattacat ttttgactgg gggatgatgat 60
 ccttatgatg ataatgttgt tttgaagaaa ctttttcacc caaatctcaa gcttttaatt 120
 gttactgaag gttcacaggg ttgcagatat tacacgaagg catttaaggg cagggttgca 180
 ggtgttaaag ttaaacctgt agacacaact ggagctggcg atgcatttgt tagtgggatt 240
 ttataactgca tagcttctga ccanactatt tt 272

<210> 2656
 <211> 128
 <212> DNA
 <213> Glycine max

 <400> 2656

 gtacagataa gtgaggatga gattacattt ttgactgggg gtgatgatcc ttatgatgat 60
 aatgttgttt tgaagaaact ttttcaccca aatctcaagc ttttaattgt aactgaaggt 120
 tcacaggg 128

<210> 2657
 <211> 239
 <212> DNA
 <213> Glycine max

 <400> 2657

 ctcttcatta cacaacaaca aagtagttgt taatagcctc tgttttcttc ttgccaccaa 60
 aatctcacac cttccattgc atcatcattc ataaatgggt catccacct catcagggtca 120
 atcccatgat ctcaaaaaag aagattgcaa ggaaacaaga tctactgggtg tttgctttgg 180
 ggaaatgtta atagactttg ttccaacggg gggaggagtg tctactggctg aagcacccg 239

<210> 2658

<211> 229
 <212> DNA
 <213> Glycine max

 <400> 2658

 tgttgacaat tctggcctgc tctttgatga tcatgcaagg acagcgttgg gattttatgc 60
 tcttaagagt aatggagaac ctgaattcat gttttaccga aatccaagtt ctgatgtgct 120
 ccttcgtcct gatgaaattg atatggacct cataaagaag gccacaatat ttcattatgg 180
 ttcaaagttt gattaaggaa cctgtaggtc agctcatctt gctgcaatg 229

<210> 2659
 <211> 256
 <212> DNA
 <213> Glycine max

 <400> 2659

 ctcttgggga acatgggttc agatactaca ccaagagttt caaaggatcg gtagatgctt 60
 tccatgtcaa tacagttgat acaactgggtg ccggtgattc ctttgttggt gctttattgg 120
 ccaagattgt cgatgatcag tccatacttg aagatgaacc aaggttaaga gaagtactaa 180
 tgtttgcaaa tgcattgtga gctattacaa ctacccaaaa gggagcaatt ccggcccttc 240
 ccaaagagga ggctgc 256

<210> 2660
 <211> 266
 <212> DNA
 <213> Glycine max

 <400> 2660

 ctgtcactct tggggaacat ggttccagat actacaccaa gagtttcaaa ggatcggtag 60
 atgctttcca tgtcaatata gttgatacaa ctggtgccgg tgactccttt gttggtgctt 120
 tattggccaa gattgtcgat gatcagtcca tacttgaaga tgaaccaagg ttaagagaag 180
 tactaaagtt tgcaaatgca tgtggagcta ttacaactac caaaaggga gcaattccgg 240
 cccttcccaa agaggaggct gcaactg 266

<210> 2661
 <211> 234
 <212> DNA

<213> Glycine max
 <400> 2661
 tctcgagccg attcggtga gatggtcca gatactacac caacagtttc aaaggatcgg 60
 tagatgcttt ccatgtcaat acagttgata caactgggtgc cggtgattcc tttgttggtg 120
 ctttattggc caagattgtc gatgatcagt ccatacttga agatgaacca aggttaagag 180
 aagtataaag ttgcaaagt catgtggagc tattacaact acccaaaagg gagc 234

<210> 2662
 <211> 253
 <212> DNA
 <213> Glycine max
 <220>
 <221> unsure
 <222> (1)..(253)
 <223> unsure at all n locations

<400> 2662
 cgaaaacagt gttccaaaat ccacacacac tctctctcnt catggcggttg aacaatggcg 60
 tccccgccac cggcaccggc ctcacgtca gcttcgggtga gatgctcatc gacttcgtcc 120
 ccaccgtctc tggcgtgtcc ctggccgagg cccctggctt cctcaaggaa aacggcggtc 180
 gcggcgacgg catcaacttt gaccagggcg caccgaccgc cctggccttc gtgacctaac 240
 gcggcgacgg gga 253

<210> 2663
 <211> 168
 <212> DNA
 <213> Glycine max

<400> 2663
 ctaaaatcca aacacactct ctcttcccat ggcgttgaac aatggcggtcc ccgccaccgg 60
 caccggcctc atcgtcagct tcggtgagat gctcatcgac ttcgtcccca ccgtctctgg 120
 cgtgtccctg gccgagggcc ctggcttctt caaggccccc ggcggcgc 168

<210> 2664
 <211> 286
 <212> DNA
 <213> Glycine max

<220>
 <221> unsure
 <222> (1)..(286)
 <223> unsure at all n locations

 <400> 2664

 aaacagtgtt ccaaaatcca aacacactct ctctcccat ggcgttgaac aatggcgtcc 60
 ccgccaccgg caccggcctt catcgtcagc tntcgggtgag atgctcatcg acttcgtccc 120
 caccgtctct ggcgtgtccc tggccgaggc cctggcttcc tcaaggcccc cggcggcgcc 180
 cccgctaacg tcgcnatcgc cgtgtcgcgc ctcgggcgga aagcgcttcc gtcggcaagc 240
 tcggcgacga cgagttcggc aaaatgntcg ccggantccc caagga 286

<210> 2665
 <211> 304
 <212> DNA
 <213> Glycine max

 <400> 2665

 gttttccatt acggatcaat cagtttgatc gtggagccat gcagatcagc acacttgaag 60
 gcaatggaag tagccaagga atctgggtgc ttgctctcct atgaccccaa ccttcgtcta 120
 cctttgtggc catcggctga ggaagctcgt aagcaaatac tgagcatttg ggagaaggct 180
 gatttgatca aggtcagtga tgcggagctt gagttcctca caggaagtga caagattgat 240
 gatgaatctg ctttgtcatt gtggcacccc aatttgaagt tgctccttgt cactcttggg 300
 gaac 304

<210> 2666
 <211> 280
 <212> DNA
 <213> Glycine max

 <400> 2666

 gttttccatt acggatcaat cagtttgatc gtggagccat gcagatcagc acacttgaag 60
 gcaatggaag tagccaagga atctgggtgc ttgctctcct atgaccccaa ccttcgtcta 120
 cctttgtcgc cttcggctga ggaagctcgt aagcaaatac tgagcatttg ggagaaggct 180
 gatttgatca aggtcagtga tgcggacttg agttcctcac aggaagtgac aagattgatg 240

atgaatctgc tttgtcattg tggcacccca atttgaagtt 280

<210> 2667
 <211> 275
 <212> DNA
 <213> Glycine max

<400> 2667

caagattcat catcaatctt gtgacaggaa gtgacaagat tcatcatcaa tcttgtcact 60
 tctgtgagg aactcaagct ccgcatcact gaccttgatc aaatcagcct agtgccaaat 120
 gctcagtatt tgcttacgag cttgctcagc cgaaggcaca aaggtagacg aaggttgggg 180
 tcataggaga gcaagcacc agattccttg gctacttcca ttgccttcaa gtgtgctgat 240
 ctgcatggct ccacgatcaa actgattgat ccgta 275

<210> 2668
 <211> 247
 <212> DNA
 <213> Glycine max

<400> 2668

ggatcaatca gtttgatcgt ggagccatgc agatcagcac acttgaaggc aatggaagta 60
 gccaaaggaat ctgggtgctt gctctcctat gacccaacc ttcgtctacc tttgtggcct 120
 tcggctgagg aagctcgtaa gcaaatactg agcatttggg agaaggctga tttgatcaag 180
 gtcagtgatg cggacttgag ttcctcacag gaagtgacaa gattgatgat gaatctgctt 240
 tgtcatt 247

<210> 2669
 <211> 245
 <212> DNA
 <213> Glycine max

<400> 2669

ggatcaatca gtttgatcgt ggagccatgc agatcagcac acttgaaggc aatggaagta 60
 gccaaaggaat ctgggtcttg ctctcctatg accccaacct tcgtctacct ttgttgctt 120
 cggctgagga agctcgtaag caaatactga gcatttggga gaaggctgat ttgatcaagg 180
 tcagtgatgc ggagcttgag ttcctcacag gaagtgacaa gattgatgat gaatctgctt 240

tgtca 245

<210> 2670
 <211> 253
 <212> DNA
 <213> Glycine max

<400> 2670

gtgaccctac ggcgcgacgg ggagcgtgag ttcattgttct acagaaaccc cagcgccgac 60
 atgctcctca agcccgaaga actcaatctc gaactcatca gatctgcaaa agttttccat 120
 tacggatcaa tcagtttgat cgtggagcca tgcagatcag cacacttgaa ggcaatggaa 180
 gtagccaagg aatctgggtg cttgctctcc tatgacccca accttcgtct acctttgtgg 240
 ccttcgggctg agg 253

<210> 2671
 <211> 234
 <212> DNA
 <213> Glycine max

<400> 2671

caatctcgaa ctcatcagat ctgcaaaagt tttccattac ggatcaatca gtttgatcgt 60
 ggagccatgc agatcagcac acttgaaggc aatggaagta gccaaaggaat ctgggtgctt 120
 gctctcctat gaccccaacc ttctgtctacc tttgtggcct tcggctgagg aagctcgtaa 180
 gcaaatactg agcatttggg agaaggctga tttgatcaag gtcagtgatg cgga 234

<210> 2672
 <211> 263
 <212> DNA
 <213> Glycine max

<220>
 <221> unsure
 <222> (1)..(263)
 <223> unsure at all n locations

<400> 2672

ctcaatctcg aactcatcag atctgcaaaa gttttccatt acggatcaat cagtttgatc 60
 gtggagccat gcagatcagc acacttgaag gcaatggaag tagccaagga atctgggtgc 120
 ttgctctcct atgaccccaa ccttcgtcta cccttgtggc cttcggctga ggaagctcgt 180

aagcaaatac tgagcatttg ggagaaggct gatttgatca aggtcagtga tgcgganttg 240
 agttcctcac aggaagtgac aag 263

<210> 2673
 <211> 229
 <212> DNA
 <213> Glycine max

<220>
 <221> unsure
 <222> (1)..(229)
 <223> unsure at all n locations

<400> 2673

gctcctcaag cccgaagaac tcaatctcga actcatcaga tctgcaaaag ttttccatta 60
 cggatcaatc agtttgatcg tggagccatg cagatcagca cacttgaagg caatggaagt 120
 agccaaggaa tctgggtgct tgctctccta tgaccccaac cttcgtctac ctntgtngcc 180
 ttcggctgag gaagctcgta agcaaatact gagcatttgg gagaaggct 229

<210> 2674
 <211> 256
 <212> DNA
 <213> Glycine max

<400> 2674

ggatcaatca gtttgatcgt ggagccatgc agatcagcac acttgaaggc aatggaagta 60
 gccaaaggaat ctgggtgctt gctctcctat gaccccaacc ttcgtctacc tttgtgcgcc 120
 ttcggctgag gaagctcgta agcaaatact gagcatttgg gagaacgctg atttgatcaa 180
 ggtcagtgat gcggacttga gttcctcaca ggaagtgaca agattgatga tgaatctgct 240
 ttgtcattgt ggcacc 256

<210> 2675
 <211> 323
 <212> DNA
 <213> Glycine max

<400> 2675

ttcggctcga gaatggcgca cgcaccgccc tggccttcgt gaccctacgc gccgacgggg 60

agcgatagtt catgttctac agaaacccca gcgtcgacat gtcctcaag cccgaagaac 120
tcaatctcga actcatcaga tctgcaaaag ttttcaatta cggatcaatc agtttgatcg 180
tgagagccatg cagatcagca cacttgaagg caatggaagt agccaaggaa tctgggtgct 240
tgctctccta tgaccccaac cttcgtctac ctttgtggcc ttcggctgag gaagctcgta 300
agcaaatact gagcatttgg gag 323

<210> 2676
<211> 380
<212> DNA
<213> Glycine max

<400> 2676

aaggctttgg ggagatgatg atcaatttgg tccctacagt agcaagagtg tcccttgag 60
atgcaactgc ctataagaaa ttcccttctg gagccactgc caatgttgct gttggaattt 120
gtagactaag aggctcagca gctttcattg gcaagggtggg aaatgatgaa tttggacatc 180
tgttatctga tattctgaaa caaaatggtg ttgacaattc tggcctgctc tttgatgatc 240
atgcaaggac agcgttggga atttatgctc ttaagagtaa tggagaacct gaattcatgt 300
tttaccgaaa tccaagttct gatgtgctcc ttcgtcctga tgaaattgat atggacctca 360
taaagaaagc acaatatttc 380

<210> 2677
<211> 336
<212> DNA
<213> Glycine max

<220>
<221> unsure
<222> (1)..(336)
<223> unsure at all n locations

<400> 2677

gctcccaaca gtgtccaaat ccaacgcaca ctttttcccc catgggggttg aacaatggcg 60
tccccgccac tggcaccggc ctcatcgta gcttcggcga gatgctcatc gacttcgtcc 120
ccaccgtctc cggcgtgtcc ctggccgagg cccttggett cctcaaggcc cncggcggcg 180
ccccagccaa cgtcgccatc gccgtgtcgc gactcggcgg caaagccgcc ttcgtcggca 240
aactcgggga cgacgagttc ggccacatgc tcgccggaat ccttaaggag aacgggtgtcc 300

gcgcccgcgg cattaacttc gaccaggggtg cacgca 336

<210> 2678
 <211> 339
 <212> DNA
 <213> Glycine max

<400> 2678

gggagcgtga gttcatgttc tacagaaacc ccagcgcgga catgctcctc aagcccgaag 60
 aactcaatct cgaactcatc agatctgcaa aagttttcca ttacggatca atcagtttga 120
 tcgtggagcc atgcagatca gcacacttga aggcaatgga agtagccaag gaatctgggt 180
 gcttgcctct ctatgacccc aaccttcgtc tacctttgtg gccttcggct gaggaagctc 240
 gtaagcaaact actgagcatt tgggagaaaag ctgatttgat caaggtcagt gatgcggaag 300
 ctgagttcct cacaggaagt gacaagattg atgatgaat 339

<210> 2679
 <211> 271
 <212> DNA
 <213> Glycine max

<400> 2679

cagccgcaga cagagatgga agctgtgtgt ggaagtgttt gggtcacatc ctctcttcca 60
 cgctcaccca agtccactct ctctctattc cgctctactc atcaacacct aacagcattt 120
 ccttcacaat cccatctttt cttatatcac cctcctccct atgctaattgc taaaaccctc 180
 cgcgccagaa cctcctccaa acccgccatt ttccttcccc acttaattgc ttctctggaa 240
 caagttgacc agacttacat aatgggtcaag c 271

<210> 2680
 <211> 391
 <212> DNA
 <213> Glycine max

<400> 2680

acgcgtccag tacagctggc caaaaaacga ccgaaggggg agataccaag gaaatttggt 60
 tcttacctct taccgcgaga cagatgaaaag aagggaaata catggaagct gtgtgtgcaa 120
 gtggaagcag tgtttgggtc acatcctcgc ttacacgcac acccaagatc acactccctc 180

tattccgcgc cagttagcac cagctaacag catttccttc acaatccctt cttttctcct 240
atcacccttc tcgctatgct aatgctagaa cctccgcgc cacaacctcc tccagacca 300
ttttccttcc ccacataagt gcatcactgg aacaaattta ctacacttat attatggtca 360
agcccgacgg cgtcaaacgt ggccctcgtgg g 391

<210> 2681
<211> 405
<212> DNA
<213> Glycine max

<220>
<221> unsure
<222> (1)..(405)
<223> unsure at all n locations

<400> 2681

agacggctgc gagaagacga cagaaggggg gttcttctta gccgtagttt tctctcacag 60
ccgcagacag agatggaagc tgtgtgtgga agtgtttggg tcacatcctc tcttccacgc 120
tcaccaagt ccactctctc tctattccgc tctactcatc aacacctaac agcatttctt 180
tcacaatccc atcttttctt atatcaccct cctccctatg ctaatgctaa aaccctccgc 240
gccagaacct cctccaaacc cgccattttc cttccccact taattgcttc tctggaacaa 300
gttgaccaga cttacataat ggtcaagccc gacggcgtgc aacgtggcct cgtgggagaa 360
attacttcta ggtttgagaa ganagggttt aagtcaactg gcttg 405

<210> 2682
<211> 237
<212> DNA
<213> Glycine max

<220>
<221> unsure
<222> (1)..(237)
<223> unsure at all n locations

<400> 2682

gaagcacttt tggatgttgc gtcattgtctt gcaagcagtg ctcagacca gaagggatgg 60
aatcgcataa tatttgagaa gccatttggc tttgatgcac tttcttccca taggctgaca 120
caatatcttc tttcaaactt tcaggaaaag caaatatata gaattgatca tctactagga 180

aggatatctc atgaaaactc tacagnttta agggtttcaa agcgagnttt tgagcca 237

<210> 2683
 <211> 255
 <212> DNA
 <213> Glycine max

<400> 2683

ctgtgttgag ttttccaacc ttaaaaagac tctctcttct ctctcgtctt ttctctccct 60
 gaagcaaaac aacattagca tcaaaaccag agtggttcta gtaatccggt gctgctagag 120
 gatgggaact agtgaatggc atatcgagcg aagatctagc ttcggcactg aatccccctt 180
 agcaatatag gcacgcaatg tgcctgaaac tcgtcactct ctattgtcgt gcttggcgct 240
 tctggggatc ttgct 255

<210> 2684
 <211> 260
 <212> DNA
 <213> Glycine max

<400> 2684

tatggaatcg cataatattt gataagccat ttggctttga tgcactttct tcccataggc 60
 tgacacaata tcttctttca aactttcagg aaaagcagat atatagaatt gatcatctac 120
 taggaaggaa tctcattgaa aatcttacag ttttaagggt ttcaaacta gtttttgagc 180
 cactttggag tcgtacttat atagataatg tacaggatcat tttatcagag gacttggctg 240
 tgcacactgg aaatattcaa 260

<210> 2685
 <211> 279
 <212> DNA
 <213> Glycine max

<400> 2685

tacggctgcg acaagacgac agaaggggag tgcgtgaaga aaacaccaac tgttttgagt 60
 tttccaacct taaaaagact ctctcttctc tctctctctt tctctacctg aagcaaaaca 120
 acattagcat caaaaccaga gtggttctag taatccggtg ctgctagagg atgcgaacta 180
 gtgaatggca tatcgagcga agatctagct tcggcactga atccccctta gcaagagagg 240

caggaaatgt gcctgaaact gggtcactct ctattgttg 279

<210> 2686
 <211> 137
 <212> DNA
 <213> Glycine max

<400> 2686

ccaggcagta tataagacat ggacagttga tattctcaga agattttggc actgaaggac 60
 gtggcgggta ctttgaccat tatggatatca tgagagacat tatgcagaat catttacttc 120
 aaataactagc actcttt 137

<210> 2687
 <211> 284
 <212> DNA
 <213> Glycine max

<400> 2687

caaccttaaa agactctctt ttctctctct gaactctgaa gcaaaacaac attaccagag 60
 tggttctagt aattcagtgc tgctagaaga tggaaactag tgaatggcat atcgagcgaa 120
 gatctagctt cggctctgaa tcccccttag caagagaggc aggaaatgtg cctgaaactg 180
 ggtcactctc tattgtggtg cttggtgctt ctggtgatct tgctaagaag aagacatttc 240
 ctgcactttt ccacctatac ctgcagggat tcttaccacc agat 284

<210> 2688
 <211> 242
 <212> DNA
 <213> Glycine max

<400> 2688

cttttctctc tctgaactct gaagctaaac aacattacca gagtggttct agtaattcag 60
 tgctgctaga agatggaaac tagtgaatgg catatcgagc gaagatctag cttcggctct 120
 gaatccccct agcaagagag gcaggaaatg tgcttgaac tgggtcactc tctattgtgg 180
 tgcttggtgc ttctggtgat cttgctaaga agaagacatt tctgcactt ttccacctat 240
 ac 242

<210> 2689
 <211> 194
 <212> DNA
 <213> Glycine max

 <400> 2689

 tgtttcagct aactctgctt cacttggttaa ttgagtgggt ctagtaatcc ggtgctgcta 60
 gaggatggga actagtgaat ggcatatcga gcgaagatct agcttcggca ctgaatcccc 120
 cttagcaaga tatgcaggaa atgtgcctga aactgggtca ctctctattg ttgtgcttgg 180
 cgcttctggg gatc 194

<210> 2690
 <211> 286
 <212> DNA
 <213> Glycine max

 <220>
 <221> unsure
 <222> (1)..(286)
 <223> unsure at all n locations

 <400> 2690

 cttactcctc ctgcagttga ggcaatatca gagagttttg gagagtggat tatcaaaggt 60
 ttaaagaagg aaaaaggata ccctgtagag aatgtttagan cgtctctccg ggcgtgaccc 120
 tcgagtccac agggtcceaa attgagcgtc gcagttttgc aggtctggct cgcgccggtt 180
 gcatggtgta tgatatggga ctagccacca ccccggttg tttcatgagc atttgttgcc 240
 tccattgcct atgatgcttc aatgatgatg anagcttctc acttgc 286

<210> 2691
 <211> 269
 <212> DNA
 <213> Glycine max

 <220>
 <221> unsure
 <222> (1)..(269)
 <223> unsure at all n locations

 <400> 2691

 gtcttgctcg atcaatgcc acaagcgggt ctctggaccg tgttgctaaa aaattgaacc 60
 tccctttctt tgaggtcccc actgggttga aattttntgg gaatcttatg gatgctggga 120

atttggtccgt tgcggggaag agagttttgg aacaggttct gatcacattc gtgagaaaga 180
 tggcatctgg gctgtcttag cttggctttc tattattgca catcgcaaca aagacaagaa 240
 tcccggggag aaattgatct ccgtatctg 269

<210> 2692
 <211> 289
 <212> DNA
 <213> Glycine max

<220>
 <221> unsure
 <222> (1)..(289)
 <223> unsure at all n locations

<400> 2692

cttgctcgat caatgccaac aagtgggtgct ttggaccgtn ttgctgaaaa attngacctc 60
 cctttctgtn aggcattgctt gatttttctt acaatttcnt tcttcntaaa tnattaatat 120
 aaatganata ggcttcacat attttttagac agttctgaaa taacanaaga tggacccggg 180
 attcagggcc ccactgggtg gnaatttttt gggaatctta tggatgctgg gaatttnncg 240
 gtttgcgggg aagnaagttt ggaacagggt ctgaccacat gcgtgagat 289

<210> 2693
 <211> 298
 <212> DNA
 <213> Glycine max

<220>
 <221> unsure
 <222> (1)..(298)
 <223> unsure at all n locations

<400> 2693

tngtcaacat tctgtatgcn gaaaatggac ctgattttng agcagccagt natggggatg 60
 gtgatagaaa tatgatttta ggaagaagtt tcttgtaact nccttcagac tctgtagcag 120
 ttattgcagc cattgcaaga naagcgattc nataactcaa gaacggagtt aagggctctg 180
 ctcgatcaat gccacaagc ggtgctctgg accgtgttgc taaaaaattg aacctccctt 240
 tctttgaggt cccactgggt tggaaatttt ttgggaatct tatggatgct gggaattt 298

<210> 2694
 <211> 264
 <212> DNA
 <213> Glycine max

<220>
 <221> unsure
 <222> (1)..(264)
 <223> unsure at all n locations

<400> 2694

tttgttaggt tttttgtcac tccttcagat tccgtggcca ttatcgctgc aaatgcactt 60
 gaagctatac catacttttc tgctggttta aagggtggtg ccaggagcat gccaacctct 120
 gctgccctgg atgttggtgc caaattctga atttgaaatt ttttgaggtc cccacgggtt 180
 ggaagttctt ggtantttta tggatgctgg attgttcagt ctgtggtgaa gaaagtttgg 240
 gatggttcga ccagttcgtg agna 264

<210> 2695
 <211> 250
 <212> DNA
 <213> Glycine max

<400> 2695

cacattcgtg agacagatgg catctgggct gtttttagcta gattttctat tattgcacat 60
 cgcaacaaag acaagaatcc cggggagaaa ttgatctccg tatctgacgt tgtgatggag 120
 cactgggcac ttatggaagg aatttcttct ctagatatga ctacgaggaa tgtgaatctg 180
 aaggtgccaa taagatgata gaatacctac gagatatttt gtctaagagc aagcctggtg 240
 atcagtatgg 250

<210> 2696
 <211> 340
 <212> DNA
 <213> Glycine max

<400> 2696

cacacctgcc gccagtcaca tcatccggat acgaaaggcg accggtggca tcctcctcac 60
 tgccagccac aaccctggtg gccccgatga ggactttggc atgaagtaca acctcgccaa 120
 cggtgccccg gctcccgaga gcgtcaccaa caagatctac gaaacctcca agaccctctc 180

gtcgtacaag atcgccgaac tccccgacat cgacttgagc acaattggca cacaaaagta 240
 tggcagcctc gaggttgaga tcgtccactc aacagaggac tacctgaaga tgctcaagga 300
 catcttcgac tttgacctca tcaagtcgtt cctcaagcag 340

<210> 2697
 <211> 228
 <212> DNA
 <213> Glycine max

<400> 2697

ctggtggggc cgacaatgat ttcggcatca agtacaacgt caacaacggt ggtccagctc 60
 cagagagtgt gaccgacaag atcttccaac gcaccaagga gatttccgcc tacaaggctc 120
 ttgatgctgg cgagcttgac ctatccaaga ttagtagctc cacctatggt cccatggagg 180
 ttgagatcgt cgactcgctc aaggactata ttaccctact caaggaca 228

<210> 2698
 <211> 231
 <212> DNA
 <213> Glycine max

<400> 2698

atntagtaaa agcagttcgc aaggcagctg gaaacataga gaaaccattg gagggtttcc 60
 atatagttgt tgatgcaggc aatggagcag gaggcttttt tgcagcaaag gttctggaac 120
 ctctgggggc aataacttct gggagtcaat ttttggagcc tgatggcttg tttccaaatc 180
 atatcccaaa tcctgaggac aaaacagcaa tgaaagctat aaccaagca g 231

<210> 2699
 <211> 265
 <212> DNA
 <213> Glycine max

<400> 2699

atcagatctg ccagatgtgg atatcaccac aacaggtgtt acaagcttta caggccctga 60
 aggaccattt gatgttgagg tttttgattc agcaagtgat tatataaaat tgatgaagtc 120
 aatTTTTgat tttgaatcta tcaggaaact gctgtcatct cctaaattca cattctgtta 180
 tgatgcacta catgggggtg gtggagcata tgcaaagagt atatttgtgg atgagcttgg 240

ggcacaagaa agctctttac tgaac 265

<210> 2700
 <211> 266
 <212> DNA
 <213> Glycine max

<400> 2700

cgagctgatg gatccagggc aacaggtgca tttatactga cagcaagtca caatcctggg 60
 ggccctcatg aggatthttg aattaaatat aatatggaaa acggtggacc tgcaccagag 120
 ggaattactg acaagatata tgaaaacaca acaacaatta atgagtactt gattgcatca 180
 gatctgccag atctggatat caccacaaca ggtgtttaca gctttacagg ccctgaagga 240
 ccatttgatg ttgaggtttt tgattc 266

<210> 2701
 <211> 282
 <212> DNA
 <213> Glycine max

<400> 2701

gtttccaaat catatcccaa atcctgagga caaacagca atgaaagcta taaccaagc 60
 agtccttgat aacaaagctg atcttggaaat tatctttgat actgatgtgg acagatctgc 120
 tgctgtggat ttcactggcc gtgaattcaa caggaatcgt ttaattgcct taatggcagc 180
 tattgttctt gaggaacatc ctggaacaac tattgtcaca gacagtgtga cttctgatgg 240
 gcttaccacg tttattgaga agacacttgg tggaagacac ca 282

<210> 2702
 <211> 277
 <212> DNA
 <213> Glycine max

<400> 2702

cacatthttat gcctccactg ggacaacctc aataaggaag atcacataaa aagtaacaca 60
 cgttatattt ttattgagaa gcagcaccac aagcattgaa gaaacttata ttagttctgt 120
 gttgtthaat tgtctgtttg atttgagtgg tttccaatta cagggctgtc ttagcttggc 180
 tttctattat tgcacatcgc aacaaagaca agaatcccgg ggagaaattg atctccgtat 240

ctgacgttgt gatggagcac tgggcaactt atggaag 277

<210> 2703
<211> 261
<212> DNA
<213> Glycine max

<400> 2703

gcattgggct acttatgggc gccattatta tactcgatat gactatgaaa acgtggatgc 60
aggtgcagca aaggaactga tggcatatth ggtcaagctg cagtcctcac tttcagaagt 120
caatcagatt gttaagggga taaggtcaga tgthtcgaat gttgtccacg gtgatgaatt 180
tgagtacaat gatcctgtgg atggttccat ctcatcacat cagggaatcc gatatttgth 240
tgaggatgga tcacgattga t. 261

<210> 2704
<211> 300
<212> DNA
<213> Glycine max

<400> 2704

tctcgagccg aatcggctcg agtacggctg cgagaagacg tcagaacggg tggacagatc 60
tgctgctgtg gatttcactg gccgtgaatt caacaggaat cgtthtaattg ccttaatggc 120
agctattgth cttgaggaac atcctggaac aactattgtc acagacagtg tgacttctga 180
tgggcttacc acgtthtattg agaagaaact tgggtggcaga caccatcggth tcaaaagagg 240
ctacaaagat gtgattgatg aagctattcg thtgaattct attggtgagg agtcacattt 300

<210> 2705
<211> 279
<212> DNA
<213> Glycine max

<220>
<221> unsure
<222> (1)..(279)
<223> unsure at all n locations

<400> 2705

ccaaaggaag acttcggagg aggacacca gacccaatt tgacatatgc aaaanagttg 60
gttgctcgta tgggattggg caaatccgaa cccaagaag agccccaga gthtgggtgct 120

gcttctgatg gtgatgcaga tcgcaacatg gttcttggtg aaagggttttn tgtcactcct 180
 tcagattccg tggccattat cgctgcaaat gctgttgaag ctataccata cttttctgct 240
 ggtttaaagg gtgttgccag gagcatgcca acctctgct 279

<210> 2706
 <211> 270
 <212> DNA
 <213> Glycine max

<400> 2706

ggagcatatg caaagagtat atttgtggat gagcttgggg cacaagaaag ctctttactg 60
 aactgtacac caaaggaaga ctttgaggga ggacacccag accccaattt gacatatgca 120
 aaagagttgg ttgctcgtat gggattgggc aaatccgaac cacaagatga tccccagag 180
 tttggtgctg cttctgatgg tgatgcagat cgcaacatga tacttggtaa aagggttttt 240
 gtcactcctt cagattccgt ggccattatc 270

<210> 2707
 <211> 272
 <212> DNA
 <213> Glycine max

<400> 2707

gcactacatg gggttggtgg agcatatgca aagagtatat ttgtggatga gcttggggca 60
 caagaaagct ctttactgaa ctgtacacca aaggaagact ttggaggagg acaccagag 120
 cccaatttga catatgcaaa agagttgggt gctcgtatgg gattgggcaa atccgaacca 180
 caagatgatc cccagagtt tgggtgctgct tctgatggtg atgcagatcg caacatgata 240
 cttggtaaaa ggttttttgt cactccttca ga 272

<210> 2708
 <211> 263
 <212> DNA
 <213> Glycine max

<400> 2708

gcttggagca caagaaagct ctttactgaa ctgtacacca aaggaagact tcggaggagg 60
 acaccagag cccaatttga catatgcaaa agagttgggt gctcgtatgg gattgggcaa 120

atccgaaccc caagaagagc cccagagtt tgggtgctgct tctgatgggtg atgcagatcg 180
 caacatgggtt cttggtaaaa gggtttttgt cactccttca gattccgtgg ccattatcgc 240
 tgcaaagtct gttgaagcta tac 263

<210> 2709
 <211> 269
 <212> DNA
 <213> Glycine max

<400> 2709

aaaattgatg aagtcaattt ttgattttga atctatcagg aaactgctgt catctcctaa 60
 attcacattc tggtatgatg cacctacatg gggttgggtg agcttatgca aagagtattt 120
 ttgtggatga gcttggagca caagaaagct ctttactgaa ctgtacacca aaggaagact 180
 tctgaggagg ataccagac tccagtttga catatgcaaa agagtttggt gctcgtatgg 240
 gattgggcaa atccggaccc caagaagag 269

<210> 2710
 <211> 283
 <212> DNA
 <213> Glycine max

<220>
 <221> unsure
 <222> (1)..(283)
 <223> unsure at all n locations

<400> 2710

ggcnagtgat tntataanat tgatgaagtc aattttngat tttgaatcta tcaggaaact 60
 gctgtcatct cctaaattcc acattctgtt atgatgcact acatggggnn ggtggagcat 120
 atgcaaagag tattttttgtg gatgagctgg agcacaagan agctctttac tgaactgtac 180
 accaaaggaa gacttcggag gaggacaccc agaccccaat ttgacatatg caaaagcagt 240
 tggttgctcg tatgggattg ggcaaattccg naccccaaga aga 283

<210> 2711
 <211> 263
 <212> DNA
 <213> Glycine max

<400> 2711

atgagaagga tccatcaaag attgggagac tttcaaata agcccttgct cctcttgtgg 60

aagttgcatt gaaactttcg aagatggaag aattcactgg tcgatccgct ccaacagtca 120

ttacatgaac acatacaggt ggaaggtggg tagatcctga agtttctccc agtcatttct 180

tctttgttca gtttcttacg gatggccgaa cactagtgtt ggttgtttgc agcctttgct 240

atgggcactt gagtggaatt tga 263

<210> 2712

<211> 308

<212> DNA

<213> Glycine max

<400> 2712

gagaaggatc catcaaagat tgggagactt tcaaataag cccttgctcc tcttgtggaa 60

gttgcattga aactttcgaa gatggaagaa ttcactgggc gatccgctcc aacagtcatt 120

acatgaacac atacaggtgg aaggtgggta gatcctgaag tttctcccag tcatttcttc 180

tttgttcagt ttcttacgga tggccgaaca ctagtgttgg ttgtttgcag cctttgctat 240

gggcatgagt ggatttgatc agttacttat caaaatttga tgtgctgaat aagttgcaac 300

tgccgagt 308

<210> 2713

<211> 285

<212> DNA

<213> Glycine max

<400> 2713

caacaattcg attatacatt gagcaatatg agaaggatcc atcaaagatt gggagacttt 60

caaacgaagc acttgctcct gcttgtggaa gttgcgttga aactttcgaa gatggaagaa 120

ttcactgggc gatccgctcc aacagtcatt aatgaacaca ttcaagtgga aggtgggttag 180

atcctgaagc ttctcccagt gcatttcatt tcttctttgt ccagtatctt acggatagcc 240

gaacagtaga tttggttgtt tgcagccttt gctatgggaa attga 285

<210> 2714

<211> 260

<212> DNA

<213> Glycine max

<400> 2714

gccagtcacg gtgctcttca atgtttcacg cgtagagacc actcccttcg atggccagaa 60
gcctgaaccc tctgggtctcc gcaacaaggt gaaagtgttc gtgcaacctc attacctcca 120
taactttggt cagtcaacat tcaatgcatt aactgtggaa aaagttagag gtgcaacgct 180
agttgtatct ggtgatgggc gttatTTTTT aaaggtagct attcagatta taactaaaat 240
gtcagcagca aatggagtaa 260

<210> 2715

<211> 252

<212> DNA

<213> Glycine max

<400> 2715

cgggtagcca gccagtcacg gtgctcttca atgtttcacg cgtagagacc actcccttcg 60
atggccagaa gcctggaacc tctgggtctcc gcaagaaggt gaaagtgttc gtgcaacctc 120
attacctcct aactttgttc agtcaacatt caatgcatta actgtggaaa aagttagagg 180
tgcaacgcta gttgtatctg gtgatgggcg ttatTTTTTca aaggaagcta ttcagattat 240
aactaaaatg tc 252

<210> 2716

<211> 246

<212> DNA

<213> Glycine max

<400> 2716

gtttttcttt gttccggtag ccagccagcc agccatggcg ctcttcaatg tttcacgcgt 60
tgagaccacc cctccgatg cacacaagcc tggaacctct cgtctccgca agaaggtgaa 120
agtattcgtg caacctcctt acctccataa ctttgtccag cccacattca atgccttaac 180
tgtggaaaaa gttagaggcg caacgctagt tgtatctggt gatggcggtt atttctcaaa 240
ggaagc 246

<210> 2717

<211> 262

<212> DNA

<213> Glycine max
 <400> 2717
 tccggatttc gttttgcttt gttcaggtag ccagccagtc atggtgctct tcaatgtttc 60
 acgcgtagag tccactccct tcgatggcct gaatcctgga agctctggtc tccgcaagaa 120
 ggtgagtagt gttcgtgcaa cctcattacc tccataactt tgttcagtca acattcgttg 180
 cattaactgt ggataaagtt cgaggtgctg cgctagtgtg atctggtgat ggtcgtgatt 240
 attcaaagga tgctattcag at 262

<210> 2718
 <211> 295
 <212> DNA
 <213> Glycine max
 <400> 2718
 ttttcatcaa ctgctaagct aactgaactc tctctcgttg ttcccttggc ctctcgctct 60
 ataaatacac atcgcatcat tctctcactt gcacattgaa atctgaacct tccggatttc 120
 gttttgcttt gttcaggtag ccagccagtc atggtgctct tcaatgtttc acgcgtagag 180
 accactccct tcgatggcca gaagcctgga acctctggtc tccgcaagaa ggtgaaagtg 240
 ttcgtgcaac ctcattacct ccataacttt gttcagtcaa cattcaatgc attaa 295

<210> 2719
 <211> 265
 <212> DNA
 <213> Glycine max
 <400> 2719
 ctgcgagaag acgacagaag ggggcacatt gaaatctgaa ctttccggat ttcgttttgc 60
 tttgttcagg tagccagcca gtcattggtgc ttttcaatgt ttcacgcgta gagaccactc 120
 ctttcgatgg ccagaagcca ggaacctctg tctccgcaag aaggtgaaag tgttcgtgca 180
 acctcattac ctccataact ttgttcagtc aacattcaat gcattaactg tggagaaagt 240
 tagaggtgca acgctagtgt tatct 265

<210> 2720
 <211> 268
 <212> DNA

<213> Glycine max

<400> 2720

gctaagctaa ctgaactctc tctcggttgtt cccttggcct ctcgctctat aaatacacat 60
cgcatcattc tctcacttgc acattgaaat ctgaaccttc cggatttcgt tttgctttgt 120
tcaggtagcc agccagtcac ggtgctcttc aatgtttcac gcgtagagac cactcccttc 180
gatggccaga agcctggaac ctctggtctc cgcaagaagg tgaaagtgtt cgtgcaacct 240
cattacctcc ataactttgt tcagtcaa 268

<210> 2721

<211> 240

<212> DNA

<213> Glycine max

<400> 2721

acggctgcga gaagacgaca gaagggggca cattgaaatc tgaaccttcc ggatttcggt 60
ttgctttgtt caggtagcca gccagtcacg gtgctcttca atgtttcacg cgtagagacc 120
actcccttcg atggccagaa gcctggaacc tctggtctcc gcaagaaggt gaaagtgttc 180
gtgcaacctc attacctcca taactttgtt cagtcaacat tcaatgcatt aactgtggaa 240

<210> 2722

<211> 248

<212> DNA

<213> Glycine max

<400> 2722

acggctgcta gaagacgaca gaagggggca cattgaaatc tgaaccttcc ggatttcggt 60
ttgctttgtt caggtagcca gccagtcacg gtgctcttca atgtttcacg cgtagagacc 120
actcccttcg atggcctgaa gcctggaacc tctggtctcc gctagaaggt gaaagtgttc 180
gtgcaacctc attacctcca taactttgtt cagtcaaggt ttaatgcatt aactgtggaa 240
aaagttag 248

<210> 2723

<211> 244

<212> DNA

<213> Glycine max

<400> 2723

tgctcttcaa tgtttcacgc gtagagactc atgactggct ggctacctga acaaagcaaa 60

acgaaatccg gaagggttcag atttcaatgt gctttgttca ggtagccagc cagtcatggt 120

gctcttcaat gtttcacgcg tagagaccac tcccttcgat ggccagaagc ctggaacctc 180

tggtctcgcg caagaagggtg aaagtgttcg tgccacctca ttacctccat aactttgttc 240

agtc 244

<210> 2724

<211> 280

<212> DNA

<213> Glycine max

<400> 2724

caataaactg ctaagctaac tgaactctcc ctctctcctt cctcgttcct ttcgcctctc 60

actacaaata cacatctcat ctcatccgtc tctcactttt aatttttctc tgcaatctga 120

accttccgga tttcgttttt ctttggtccg gtagccagcc agccagccat ggtgctcttc 180

aatgtttcac gcgttgagac cactcccttc gatggacaga agcctggaac ctctggtctc 240

cgcaagaagg tgaaagtatt cgtgcaacct cattacctcc 280

<210> 2725

<211> 140

<212> DNA

<213> Glycine max

<400> 2725

cagccagcca gccatggtgc tcatcaatgt ttcacgcgtt gagaccactc ccttcgatgg 60

acagaagcct ggaacctctg gtctccgcaa gaagggtgaaa gtattcgtgc aacctcatta 120

cctccataac tttgttcagt 140

<210> 2726

<211> 274

<212> DNA

<213> Glycine max

<400> 2726

ctactgctaa gctaactgaa ctctccctct ctcttctctc gttcctttcg cctctcacta 60

caaatacaca tctcatctca tccgtctctc actttttaatt attctctgca atctgaacct 120
tccggatttc gtttctcttt gttccggtag ccagccagcc agccatgggtg ctcttcaatg 180
tttcacgcgt tgagaccact cccttcgatg gacagaagcc tggaacctct ggtctccgca 240
agaagggtgc agtattcgtg caatctcatt acct 274

<210> 2727
<211> 237
<212> DNA
<213> Glycine max

<400> 2727

catcaactgc taagctaact gaactctctc tcgttggtcc cttggcctct cgctctataa 60
atacacatcg catcattctc tcacttgcaa attgaaatct ggaacttccg gatttcgttt 120
tgctttgttc aggtagccag ccagtcatgg tgctcttcaa tgtttcacgc gtagagacca 180
ctcccttcga tggccagaag cctggaacct ctggtctccg caagaggtga agtggtc 237

<210> 2728
<211> 272
<212> DNA
<213> Glycine max

<400> 2728

gctggattat gttcagtctg tgggtgaagaa agttttggga ctggttctga ccatattcgt 60
gagaaagatg gaatatgggc agttttggca tggctatcta tacttgcata tagaataaag 120
ataaacttga agacaagctt gtcactgttg aagacatagt tcgccagcat tgggctactt 180
atgggcgcca ttattatact cgatatgact atgaaaatgt ggatgcaggt gcagcaaagg 240
aactgatggc atatttggtc aagctgcagt cc 272

<210> 2729
<211> 197
<212> DNA
<213> Glycine max

<400> 2729

gctggattat gttcagtctg tgggtgaagaa agttttggga ctggttctga ccatattcgt 60
gagaaagatg gaatctgggc agttttggcc tggctatcta tacttgcata taaaaataaa 120

gataaacttg aagacaagct tgtcactgtt gaagacatag ttcgccagca ttgggctact 180
tatgggcgcc attatta 197

<210> 2730
<211> 237
<212> DNA
<213> Glycine max

<400> 2730

cctcgagccg attcggtcga gtggaagttc tttggtaatt taaacgatgc tggattatga 60
ctcagtctgt ggtgaagaaa cttttgggac tggttctgac catattcgtg agaaagatgg 120
aatctgggca gttttggcct ggctatctat acttgcataat aaaaataaag ataaacttga 180
agacaagctt gtcactgttg aagacatagt tcgccagcat tgggctactt atgggcg 237

<210> 2731
<211> 257
<212> DNA
<213> Glycine max

<220>
<221> unsure
<222> (1)..(257)
<223> unsure at all n locations

<400> 2731

ggaatctggg cagttttggc ctggctatct atacttgcata ataaaaatan agataaactt 60
gaagacaagc ttgtcactgt tgaagacata gtccgccagc attgggctac ttatgggcgc 120
cattattata ctgatatga ctatgaaaat gtggatgcag gtgcagcaaa ggaactgatg 180
gcatatttgg tcaagctgca gtcctcactt tcagaagtca atcagattat taaggggata 240
aggtcagatg tttcgaa 257

<210> 2732
<211> 266
<212> DNA
<213> Glycine max

<400> 2732

gtacaatgat cctgtggatg gttccatctc atcatatcag ggaatccgat atttgtttga 60
ggatggatca cgattgattt tccgcctatc tggaactgga tcagaagggtg caacaattcg 120

actatacatt gagcactatg agaaggatcc atcaaagatt gggagacttt caaatgaagc 180
 ccttgctcct cttgtggaag ttgcattgaa actttcgaag atggaagaat tcaactggtcg 240
 atccgctcca acagtcatta catgaa 266

<210> 2733
 <211> 243
 <212> DNA
 <213> Glycine max

<220>
 <221> unsure
 <222> (1)..(243)
 <223> unsure at all n locations

<400> 2733

gtacaatgat cctgtggatg gttccatctc atcacatcag ggaatccgat atttgtttga 60
 ggatggatca cgattgattt tccgcctatc tggaactgga tcagaagggtg caacaattcg 120
 attatacatt gagcaatatg agaaggatcc atcaaagatt gggagacttt caaacgaagc 180
 acttgctcct cttgtggaag ttgcgttgaa actttcgaag atggaagant tcaactggtcg 240
 atc 243

<210> 2734
 <211> 272
 <212> DNA
 <213> Glycine max

<400> 2734

tacggctgcg agaagacgac agaaggggga taaggtcaga tgtttcgaat gttgttcacg 60
 gtgatgaatt tgagtacaat gatcctgtgg atggttccat ctcatcacat cagggaatcc 120
 gatatttggt tgaggatgga tcacgattga ttttccgcct atctggaact ggatcagaag 180
 gtgcaacaat tcgactatac attgagcaat atgagaagga tccatcaaag attgggagac 240
 tttcaaatag agcccttgct cctcttggtg aa 272

<210> 2735
 <211> 288
 <212> DNA
 <213> Glycine max

<400> 2735

ctccgtctta cggcaattga aggaagcact atctctgcaa ctcccgtcac attcacatgg 60

cagcttctgc atctgctact gctgtgccat atctagacaa gacagatttt ctaaagcttc 120

aaaatggcag tgacattcgt ggtgtggctg ttgatgggtg tgagggagag ccagttaacc 180

tcaactgaacc tgttgccgaa gcaataggag ctgcttttgc tgcattggta gtggagaaaa 240

agaaagctga tgcttctcag catttgagag tttctattgg tcatgatt 288

<210> 2736

<211> 368

<212> DNA

<213> Glycine max

<400> 2736

atcctggaac aactattgtc acagacagtg tgacttctga tgggcttacc acgtttattg 60

agaagaaact tgggtggcaga caccatcggg tcaaaagagg ctacaaaaat gtgattgatg 120

aagctattcg tttgaattct attggtgagg agtcacattt ggcaattgaa actagtggac 180

atggagctct caaggaaaat cattggcttg atgatggcgc atacctaatt gtcaagatct 240

taaataaact tgcttctgca agagcttctg gaaaggggtg tggaagtaag gttttgactg 300

atctaataga cggacttcag gaaccagatt ttgctgtaga actgagatta aagataaacc 360

aaaaccat 368

<210> 2737

<211> 414

<212> DNA

<213> Glycine max

<400> 2737

caagcccatt gatggacaaa agactggaac cagtgggctt cgaaagaagg tgaaagtgtt 60

tatgcaagac aattaccttg caaattggat ccaggctctg ttttaattcat tgccaccgga 120

ggactacaag aatggtttgt tgggtgttggg aggtgatggg cgatacttta atcaggaagc 180

tgcacagata ataatacaaaa ttgctgctgg aaatgggtgtt ggaaaaattc tggttggaaa 240

ggaaggtatt ttgtcaacac cagccgtttc tgctgttata agaaagagaa aggcaaatgg 300

tggatttatt atgagtgcaa gccataatcc tggcggacct gaatatgatt ggggtattaa 360

gtttaattac agcagtggac aacctgcacc agaatccatc actgacaaga tttta 414

<210> 2738
 <211> 412
 <212> DNA
 <213> Glycine max

<400> 2738

gaaccttccg gatttcgttt tgctttgttc aggtagccag ccagtcatgg tgctcttcaa 60
 tgtttcacgc gtagagacca ctcccttcga tggccagaag cctggaacct ctgggtctccg 120
 caagaagggtg aaagtgttcg tgcaacctca ttacctccat aactttgttc agtcaacatt 180
 caatgcatta actgtggaaa aagtttagagg tgcaacgcta gttgtatctg gtgatgggtcg 240
 ttatTTTTtca aaggaagcta ttcagattat aactaaaatg tcagcagcaa atggagtaag 300
 acgtggttgg attggtcaaa atggattgct ttcaactcct gcagtatctg ctgttatacg 360
 tgaaagagtt ggagctgatg gattcagggc aacaggtgca tttatactga ca 412

<210> 2739
 <211> 396
 <212> DNA
 <213> Glycine max

<220>
 <221> unsure
 <222> (1)..(396)
 <223> unsure at all n locations

<400> 2739

caataaaactg ctaagctaac tgaactctcc ctctctcctt gctcgctcct ttgcgcctctc 60
 actacaaata cacatctcat ctcatccgtc tctcactttt aatttttctc tgcaatctga 120
 accttccgga tttcgttttt ctttgttccg gtagccagcc agccagccat ggtgctcttc 180
 aatgtttcac gcgttgagac cactcccttc gatggacaga agcctggaac ctctgggtctc 240
 cgcaagaagg tgaaagtatt cgtgcaacct cattacctnc ataactttgt tcagtcaaca 300
 ttcaatgcat taactgtgga aaaagttaga ggtgcaacgc tagttgtatc tgggtgatgg 360
 cgttatTTTTt caaaggaagc tattcagatt ataact 396

<210> 2740
 <211> 358

<212> DNA
 <213> Glycine max
 <400> 2740
 gcgaattcag ctcgagcaat taactgttaa gctaactgaa ctctccctct gtctgcctc 60
 attccttttg cctctcacta caaatacaca tctcatctca tccgtctctc acttttaatt 120
 tttctctgca atctgaacct tccggatttc gctattcttt gtcccggtag ccagtcagcc 180
 agccatcggtg ctctacaatg tttcacgcgt tgagaccact cccttcgatg gacagaagcc 240
 tggaacctct ggtctcctca cgaacgtgac cgtattcggtg caacctcatt acctccataa 300
 cttcgatcag tcaacattca atgcattaac tgtggaaaaa gttagagggtg caacgcta 358

<210> 2741
 <211> 251
 <212> DNA
 <213> Glycine max
 <220>
 <221> unsure
 <222> (1)..(251)
 <223> unsure at all n locations
 <400> 2741

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 tgactattgc tgcaaaacct ggcttgaaat tggaaattcc tgatggggtg acgattgaga 120
 ataaggagat caacgacct gcagatatct aaggatgaat gttgtcgaat tgctgagatt 180
 tgggtccagtg atacatgact gctgaacttt gattnccagg caanacattt agttgnccct 240
 ttgccccccc c 251

<210> 2742
 <211> 256
 <212> DNA
 <213> Glycine max
 <400> 2742
 caaagctagg gcaaatcctg aaaacccttc tattgaactt gggccagaat ttaagaaggt 60
 tagcaacttc ttgggccgct tcaagtcaat tcccagtatt gttgagcttg acagtctaaa 120
 agtggctggc aatgtatggt ttggagatgg tgttatcctc aagggaataa tcagtatcgt 180

ggccaatcct ggtgttaagc tggaagttcc cgatggtgct gtcatttcgg ataaggaaat 240
 taatggccca gaggac 256

<210> 2743
 <211> 264
 <212> DNA
 <213> Glycine max

<400> 2743

ctggcctttt gttctcgtgt caatttctaa atccaccacc acaccctctc ttctattctc 60
 tattattatt atctccacac ccttcactct ccctcagtct tctctcgaat cttccaccgc 120
 aatggccacc cctgccgaga aactctccgc tctcaaatacc gccgtcgccg gattgaacga 180
 aatcagtgag aatgagaaga acggattcat cagcctcgtc ggccgctatc tcagtggcga 240
 acgcagcatg tggaatggag caag 264

<210> 2744
 <211> 253
 <212> DNA
 <213> Glycine max

<400> 2744

agtatatcct agtgttgaag tcggacaatg tggcaacagt cttgatcca aacataactaa 60
 atcatttgat gataaatgat attgaatatt gcatggagggt gacaccaagc aattcgttta 120
 atttaatggt acccacaacg aaatttaagc ttcgggagat tggtgagagac caagataaac 180
 acttgaagga caatttcaaa ctcatcgata caacaaacat gtgggtgagt ttaagagcca 240
 tcaagagggt tgt 253

<210> 2745
 <211> 243
 <212> DNA
 <213> Glycine max

<400> 2745

caaatctgca attgatattt gtgatggact gacatatctg gatttgatca ttaaccagat 60
 tgagaccctc aattccaagt atggaagcag ggttcattg cttcttttca ataaagatga 120
 cattcatgat agttctctaa aggttttggga gaagtattct aaatcaagtg ttgaagtgca 180

cactttttaa cagggtgaag atcgagagtt gaaatcattg ggtgaatata tagcaaggag 240
gaa 243

<210> 2746
<211> 255
<212> DNA
<213> Glycine max

<400> 2746

tcctccgtcg ctgcattgag ccaaatcagt gagaatgaga agaatggatt cacaagcctc 60
gttgctcggt acctcagtgg cgaagacagc atgttgagtg gagtaagatc gagacgccta 120
cggatgaagt agtgggtgcct tatgactctt tggcaccgac tcctgacggt tctttggagg 180
tgaagaacct cttggacaag cttgtggtgt tgaagctcaa tggaggcttg gggacaacta 240
tggggtgtac tggcc 255

<210> 2747
<211> 260
<212> DNA
<213> Glycine max

<220>
<221> unsure
<222> (1)..(260)
<223> unsure at all n locations

<400> 2747

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gttgaaatca ttgggtgaat attatagcaa ggaggaagtg catccatttg atgatgttga 120
tgtgttccgt ttactaatga ctggtggaac ccttgattca ttattatcac agggtaagga 180
gtatatccta gtgttgaagt cggacaatgt ggcaacagtc cttgatccaa acatactaaa 240
tcatttgatg ataaatgata 260

<210> 2748
<211> 282
<212> DNA
<213> Glycine max

<220>
<221> unsure
<222> (1)..(282)

<223> unsure at all n locations

<400> 2748

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atgaactcat tcaacactca tgatgacact caaaagattg ttgagaaata taaaaactca   60
aatattgaga ttcatacggt taaccagagt caatatactc gtttggttgt tgatgncttt  120
ttgccattcc catccaaggg gcagacaggg agggacgggt ggtaccctcc tggccacgga  180
gacgtcttcc catcattagt gaatagtgga aagcttgatg tgctattatc acagggtaag  240
gagtatgtgt ttgttgccaa ttcagacaac ctggtgctgt ag                        282
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<210> 2749

<211> 240

<212> DNA

<213> Glycine max

<220>

<221> unsure

<222> (1)..(240)

<223> unsure at all n locations

<400> 2749

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cttcacccgc aatggccacg gngccgagaa actctccgct ctcacatccg cngtcgccgg   60
attnanogaa atcantgaga atgagaagaa cggattcatc agcctcgtcg gccgctatct  120
cagtggcgaa ngcagcatgt ggaatggagn aagatccaga cgctanggac gaatggttgt  180
ncctacgaca ntnggcgcca nctcngnagg tncnnggggn aaatnatgga aanctgtgnt  240
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<210> 2750

<211> 275

<212> DNA

<213> Glycine max

<220>

<221> unsure

<222> (1)..(275)

<223> unsure at all n locations

<400> 2750

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aattttctaaa tccaccacca caccctctct tctcttctct tctctccact caacacaacg   60
tcgctnctt cttctctcga accctnnagc gnaatgacca cccgcaccga gaagctctcc  120
gctctcaaat ccgccgtcgc cggatcgaaac gaaatcagtg agagtgagaa gaacccattc  180
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atcagcctcg tcagccgcta tctcagtggc gaacgcagca tgtggaatgg agcaagatcc 240
 agacgcctac ggacgaagtg gttgtgcctt acgac 275

<210> 2751
 <211> 312
 <212> DNA
 <213> Glycine max

<400> 2751

ttcggctcga cgtcacaggg taaagagtat gtatttcttg ccaattcaga taacttggga 60
 gctatagttg acttgatgta cttgactcat tgatgtagag atcttaaate atttgatcca 120
 gaacaagaat gaatactgta tggaggtgac tcccaaaaca ttggctgatg taaaggggtg 180
 cactttgatt tcttacgaag gaaggggttca gcttttgga attgcacaag tcccagatga 240
 acatgtcaat gagttcaagt caatagagaa gttcaaaatt ttcaacacaa atcatagtcg 300
 gtgaacttaa at 312

<210> 2752
 <211> 209
 <212> DNA
 <213> Glycine max

<400> 2752

gctcggaatc ggccgagctc gagccgcgaa gcagcgtgtg gaatggagca agatccagac 60
 gcctacggac gaagtgggtg tgccttacga gactttggcg ccaactcctg aagggttcttc 120
 ggaggtgaag aatctattgg acaagcttgt ggtggtgaag ctaaattggag gcttggggaac 180
 aactatgggt tgcactggtc ctaaattctg 209

<210> 2753
 <211> 277
 <212> DNA
 <213> Glycine max

<400> 2753

ctccgctctc aaatccgccg tcgccggatt gaacgaaatc agtgagaatg agaagaacgg 60
 attcatcagc ctcgctggcc gctatctcag tggcgaacgc agcatgtgga atggagcaag 120
 atccagacgc ctacggacga agtggttgtg ccttacgaca ctttggcgcc aactcctgaa 180

ggttcttcgg aggtgaagaa tctattggac aagcttgtgg tgttgaagct aaatggaggc 240
 ttgggaacaa ctatgggttg cactggtcct aaatctg 277

<210> 2754
 <211> 245
 <212> DNA
 <213> Glycine max

<400> 2754

ccctcgagcc gaatcggctc gagcggctcg agcgctatct cagtggaccc gcagatgtgg 60
 actggagcaa gatccagacg actacggacg acagtgggtg tgccttacga cactttggcg 120
 ccaactcctg aaggttcttc ggaggtgaag aatctattgg acaagcttgt ggtgttgaag 180
 ctaaattggag gcttgggaac aactatgggt tgcactggtc ctaaattctgt aattgaagtt 240
 cgtga 245

<210> 2755
 <211> 270
 <212> DNA
 <213> Glycine max

<400> 2755

ttccaccgca atggccaccg ctgccgagaa actctccgct ctcaaaccg ccgtcgccgg 60
 attgaacgaa atcagtgaga ctgagaagaa cggattcatc agcctcgtcg gccgctatct 120
 cagtggcgaa cgcagcatgt ggaatggagc aagatccaga cgcctacgga cgaagtgggt 180
 gtgccttacg acactttggc gccaaactcct gaaggttctt cggaggtgaa gaatctattg 240
 gacaagcttg tgggtgttgaa gctaaatgga 270

<210> 2756
 <211> 219
 <212> DNA
 <213> Glycine max

<400> 2756

cgccaccgct gccgagaaac tctccgctct caaatccgcc gtcgccggat tgaacgaaat 60
 cagtgagaat gagaagaacg gattcatcag cctcgtcggc cgctatctca gtggcgaacg 120
 cagcatgtgg aatggagcaa catccagacg cctacggacg aagtggttgt gccttacgac 180

actttggcgc caactcctga aggttcttcg gaggtgaag 219

<210> 2757
 <211> 217
 <212> DNA
 <213> Glycine max

<400> 2757

accgcaatgg ccaccgctgc cgagaaactc tccgctctca aatccgccgt cgccggattg 60
 aacgaaatca gtgagaatga gaagaacgga ttcacagcc ttgtcggccg ctatctcagt 120
 ggcgaacgca gcatgtggaa tggttcaaga tccagacgcc tacggacgaa gtggttgtgc 180
 cttacgacac tttggcgcca actcctgaag gttcttc 217

<210> 2758
 <211> 286
 <212> DNA
 <213> Glycine max

<400> 2758

ctggcctttt gttctcgtgt caatttctaa atccaccacc acacactctc ttctattctc 60
 tattattatt atctccacac ccttcaactct ctctcaactct tctctcgaat cttccaccgc 120
 aatggccacc gctgccgaga aactctccgc tctcaaatac gccgtcgccg gattgaacga 180
 aatcagttag aatgagaaga acggattcat cagcctcgtc ggccgctatc tcagtggcga 240
 acgcagcatg tggaatggag caagtccaga cgcctacgga cgaatg 286

<210> 2759
 <211> 262
 <212> DNA
 <213> Glycine max

<400> 2759

cttcaactctc tctcaactctt ctctcgaatc ttccaccgca atggccacca ctgccgagaa 60
 actctccgct ctcaaataccg ccgtcgccgg attgaacgaa atcagtgaga atgagaagaa 120
 cggattcatc agcctcgtcg gccgctatct cagtggcgaa cgcagcatgt ggaatggagc 180
 aagatccaga cgcctacgga cgaagtggat gtgcctacac gacactttgg cgccaactcc 240
 tgaaggttct tcggaagtga ag 262

<210> 2760
 <211> 263
 <212> DNA
 <213> Glycine max

 <400> 2760

 ctggcctttt gttctcgtgt caatttctaa atccaccacc acaccctctc ttctattctc 60
 tattattatt atgtccacac ccttcactct gtctcactct tctctcgaat cttccaccgc 120
 aatggccacc cctgccgaga aactctccgc tctcaaatcc gccgtcgccg gattgaacga 180
 aatcagtgag aatgagaaga acggattcat cagcctcgtc ggccgctatc tcagtggcga 240
 acgcagcatg tggaatggag caa 263

<210> 2761
 <211> 259
 <212> DNA
 <213> Glycine max

 <400> 2761

 ctggcctttt gttctcgtgt caatttctaa atccaccacc acaccctctc ttctattctc 60
 tattattatt atctccacac ccttcactct ctctcactct tctctcgaat cttccaccgc 120
 aatggccacc gatgccgaga aactctccgc tctcaaatcc gccgtcgccg gattgaacga 180
 aatcagtgag aatgagaaga acggattcat cagcctcgtc ggccgctatc tcagtggcga 240
 acgcagcatg tggaatgga 259

<210> 2762
 <211> 243
 <212> DNA
 <213> Glycine max

 <400> 2762

 cgtgtcaatt tctaaatcca ccaccacacc ctctcttcta ttctctatta ttattatctc 60
 cacacccttc actctctctc actcttctct cgaatcttcc accgcaatgg ccaccgctgc 120
 cgagaaactc tccgctctca aatccgccgt cgccggattg aacgaaatca gtgagaatga 180
 gaagaacgga ttcacagcc tcgtcggccg ctatctcagt ggccaacgca gcatgtggaa 240
 tgg 243

<210> 2763
 <211> 254
 <212> DNA
 <213> Glycine max

 <400> 2763

 ctggcctttt gttctcgtgt caatttctaa atccaccacc acaccctcac ttctattctc 60
 tattattatt atctccacac ccttcactct ctctcactct tctctcgaat cttccaccgc 120
 aatggccacc cctgccgaga aactctccgc tctcaaatacc gccgtcgccg gattgaacga 180
 aatcagtgag aatgagaaga acggattcat cagcctcgtc ggccgctatc tcagtggcga 240
 acgcagcatg tgga 254

<210> 2764
 <211> 268
 <212> DNA
 <213> Glycine max

 <400> 2764

 ctggcctttt gttctcgtgt caatttctaa atccaccacc acaccctctc ttctattctc 60
 tattattatt atctccacac ccttcactct ctctcactct tctctcgaat cttccaccgc 120
 aatggccacc cctgccgaga aactctccgc tctcaaatacc gccgtcgccg gattgaacga 180
 aatcagtgag aatgagaaga acggattcat cagcctcgtc ggccgctatc tcagtggcga 240
 aggcagcatg tggactggag caagatcc 268

<210> 2765
 <211> 243
 <212> DNA
 <213> Glycine max

 <400> 2765

 actacactgg ccttttgttc tcgtgtcaat ttctaaatacc accaccacac cctctcttct 60
 attctctatt attattatct ccacaccctt cactctctct cactcttctc tcgaatcttc 120
 caccgcaatg gccaccgctg ccgagaaact ctccgctctc aaatccgccg tcgccggatt 180
 gaacgaaatc agtgagaatg agaagaacgg attcatcagc ctcgtcggcc gctatctcag 240
 tgg 243

<210> 2766
 <211> 254
 <212> DNA
 <213> Glycine max

 <400> 2766

 ctacactggc cttttgttct cgtgtcaatt tctaaatcca ccaccacacc ctctcttcta 60
 ttctctatta ttattatctc cacacccttc actctctctc actcttctct cgaatcttcc 120
 accgcaatgg ccacctctgc cgagaaactc tccgctctca aatccgccgt cgccggattg 180
 aacgaaatca gtgagaatga gaagaacgga ttcattcagcc tcgtcggccg ctatctcagt 240
 ggccaacgca gcat 254

<210> 2767
 <211> 235
 <212> DNA
 <213> Glycine max

 <400> 2767

 cccttttggt ctcgtgtcaa tttctaaatc caccaccaca ccctctcttc tattctctat 60
 tattattatc tccacaccct tcaactctcc tcaactcttct ctggaatctt ccaccgcaat 120
 ggccacctct gccgagaaac tctccgctct caaatccgcc gtcgccggat tgaacgaaat 180
 cagtgagaat gagaagaacg gattcatcag cctcgtcggc cgctatctca gtggc 235

<210> 2768
 <211> 262
 <212> DNA
 <213> Glycine max

 <400> 2768

 cataacctcg ctctcttcac cctcttcttc ttcttcttct tcttcacttt gtaactttcg 60
 aatcttcttc cttccaccgc aatggccact cccacgctta gccccgccga cgccgacaag 120
 ctctccaacc tcaaactctc cgtcgctgca ttgagccaaa tcagtgagaa tgagaagaat 180
 ggattcacia gcctcgttgc tcgttacctc agtggcgaag acagcatgtt gagtggagta 240
 agatcgagac gcctacggat ga 262

<210> 2769

<211> 255
 <212> DNA
 <213> Glycine max

 <400> 2769

 tcgctctctt caccctcttc ttcttcttct tcttcttcac tttgtaactt tcgaatcttc 60
 ttcttccac cgcaatggcc accgccacgc ttagccccgc cgacgccgac aagctctcca 120
 acctcaaadc ctccgtcgct gcattgagcc aatcagtgga gaatgagaag aatggattca 180
 caagcctcgt tgctcgttac ctcaagtggc aacacagcat gttgagtggg gtaagatcga 240
 gacgctacgg atgaa 255

<210> 2770
 <211> 245
 <212> DNA
 <213> Glycine max

 <400> 2770

 agctctcttc accctcttct tcttcttctt cttcttcaact ttgtaacttt cgaatcttct 60
 tccttccacc gcaatggcca ccaccacgct tagccccgcc gacgccgaca agctctccaa 120
 cctcaaattc tccgtcgctg cattgagcca aatcagtgag aatgagaaga atggattcac 180
 aagcctcgtt gctcgttacc tcagtggcga acacagcatg ttgagtggag gtgctgaagc 240
 tcaat 245

<210> 2771
 <211> 309
 <212> DNA
 <213> Glycine max

 <400> 2771

 ttgaaaatct taaatcattt gatccagaac aagaatgaat actgtatgga ggtgactccc 60
 aaaacattgg ctgatgtaaa ggggtggcact ttgatttctt acgaaggaag ggttcagctt 120
 ttggaaattg cacaagtccc agatgaacat gtcaatgagt tcaagtcaat agagaagtgc 180
 aaaattttca acacaaataa tttgtgggtg aacttaaagt cagttaaaag gcttgttgaa 240
 gctgatgctc ttaagatgga aattattccc aatccaaagg aagttgatgg aataaaagtt 300
 cttcagctg 309

<210> 2772
 <211> 297
 <212> DNA
 <213> Glycine max

 <400> 2772

 atgcactatt gtcacagggt aaagagtacg tgtttggtgc caattcggat aacttgggag 60
 ctatagttga cttgaaaatc ttgaatcatt tgatccagaa caagaatgaa tactgtatgg 120
 aggtgactcc caaaacattg gctgatgtaa agggggggcac tttgatttct tacgaaggaa 180
 gggttcagct cctggaaatt gcacaagtcc cagatgaaca tgtcaatgag ttcaagtcaa 240
 tagagaagtt caaaattttc aacacaaata atttgtgggt gaacttaaac gcattaa 297

<210> 2773
 <211> 276
 <212> DNA
 <213> Glycine max

 <400> 2773

 tgtgaaaggt ggcactctga tttcttatga aggaagggtt cagctcctgg aaattgcccc 60
 agtaccagat gaacatgtca gtgaatttaa gtctatagag aaattcaaaa ttttcaacac 120
 aaataatttg tgggtaaact tgaaagcaat taaaaggctt gttgaagctg atgctctgaa 180
 gatggaaatt attcccaatc caaaggaagt cgatggagta aaagttcttc aattggaaac 240
 tgcagctggt gcagcaataa gggtctttga caaagc 276

<210> 2774
 <211> 276
 <212> DNA
 <213> Glycine max

 <400> 2774

 ttcggataac ttgggagcta tagttgactt gaaaatcttg aatcatttga tccagaacaa 60
 gaatgaatac tgtatggagg tgactcccaa aacattggct gatgtaaagg gtggcacttt 120
 gatttcttac gaaggaaggg ttcagctcct ggaaattgca caagtccccg atgaacatgt 180
 caatgagttc aagtcaatag agaagttcaa aattttcaac acaaataatt tgtgggtgaa 240
 cttaaacgca gttaaaaggc ttgttgaagc tgatgc 276

<210> 2775
 <211> 266
 <212> DNA
 <213> Glycine max

 <400> 2775

 gtggcacttt gatttcttac gaaggaagg ttcagctcct ggaaattgca caagtccccg 60
 atgaacatgt caatgagttc aagtcaatag agaagttcaa aattttcaac acaaataatt 120
 tgtgggtgaa cttaaacgca gttaaaaggc ttgttgaagc tgatgctctt aagatggaaa 180
 ttattcccaa tccaaaggaa gttgacggaa taaaagttct tcagctggaa actgcagctg 240
 gtgctgcaat aaggttcttt gacaag 266

<210> 2776
 <211> 251
 <212> DNA
 <213> Glycine max

 <400> 2776

 gtggcacttt gatttcttac gaaggaagg ttcagctcct ggaaattgca caagtccccg 60
 atgaacatgt caatgagttc aagtcaatag agaagttcaa aattttcaac acaaataatt 120
 tgtgggtgaa cttaaacgca gttaaaaggc ttgttgaagc tgatgctctt aagatggaaa 180
 ttattcccaa tccaaaggaa gttgacggaa taaaagttct tcagctggaa actgcagctg 240
 gtgctgcaat a 251

<210> 2777
 <211> 253
 <212> DNA
 <213> Glycine max

 <400> 2777

 cttttggaaa ttgcacaagt cccagatgaa catgtcaatg agttcaagtc aatagagaag 60
 ttcaaaatth tcaacacaaa taatttggtg gtgaacttaa atgcagttaa aaggcttggt 120
 gaagctgatg ctcttaagat ggaaattatt cccaatccta aggaagttga tggaataaaa 180
 gttcttcagc tggaaactgc agctgggtgct gcaataaggt tctttgacaa ggctattggg 240
 attaagtgc ctc 253

<210> 2778
 <211> 249
 <212> DNA
 <213> Glycine max

 <400> 2778

 ggggtggcact ttgatttctt acgaaggaag ggttcagctc ctggaaattg cacaagtccc 60
 cgatgaacat gtcaatgagt tcaagtcaat agagaagttc aaaattttca acacaaataa 120
 tttgtgggtg aacttaaacg cagttaaaag gcttggtgaa gctgatgctc ttaagatgga 180
 aattattccc aatccaaagg aagttgacgg aataaaagtt cttcagctgg aaactgcagc 240
 tgggtgctgc 249

<210> 2779
 <211> 275
 <212> DNA
 <213> Glycine max

 <400> 2779

 acctgcgaga agacgacaga agggcccgat gaacatgtca atgagttcaa gtcaatagag 60
 aagttcaaaa ttttcaacac aaataatttg tgggtgaact taaacgcagt taaaaggctt 120
 gttgaagctg atgctcttaa gatggaaatt attcccaatc caaaggaagt tgacggaata 180
 aaagttcttc agctggaaac tgcagctggg gctgcaataa gggtctttga cagggctatt 240
 gggattaatg ttctcgcac acgattcctt cctgt 275

<210> 2780
 <211> 276
 <212> DNA
 <213> Glycine max

 <220>
 <221> unsure
 <222> (1)..(276)
 <223> unsure at all n locations

 <400> 2780

 ctttgacaag gctattggga ttaatgttcc tcgatcacga ttcntcctg tgaaggcaac 60
 ttcagatttg cttcttgtcc agtctgacct ctacactttg gaagacggat ttgtcattcg 120
 gaacaaagct agggaaaatc ctgaaaaccc ttctattgaa ctgggaccag aatttaagaa 180

ggtttagcaac ttcttgggcc gtttcaagtc aattcctagt atcgttgagc ttgacagtct 240
 aaaagtggct ggtgatgtat ggtttggagc tgggtg 276

<210> 2781
 <211> 279
 <212> DNA
 <213> Glycine max

<400> 2781

ccaatccaaa ggaagttgac ggaataaaaag ttcttcagct ggaaactgca gctggtgctg 60
 caataagggt ctttgacaag gctattggga ttaatgttcc tcgatcacga ttccttcctg 120
 tgaaggcaac ttcagattgc ttcttgtcca gtctgacctc tacactttgg aagacggatt 180
 tgtcattcgg aacaaagcta gggaaaatcc tgaaaaccct tctattgaac tgggaccaga 240
 atttaagaag gttagcaact tcttgggccg cttcaagtc 279

<210> 2782
 <211> 273
 <212> DNA
 <213> Glycine max

<400> 2782

tacggctgcg agaagacgac agaagggagg gtaaagagta tgtgtttggt gccaatcgg 60
 ataacttggg agctatagtt gacttgaaaa tcttgaatca tttgatccag aacaagaatg 120
 aatactgtat ggaggtgact cccaaaacat tggctgatgt aaaggggtggc actttgattt 180
 cttacgaagg aagggttcag ctcttgaaa ttgcacaagt cccgatgaa catgtcaatg 240
 agttcaagtc aatagagaag ttcaaaattt tca 273

<210> 2783
 <211> 277
 <212> DNA
 <213> Glycine max

<400> 2783

tacggctgcg agaagacgac agaagggagg gtaaagagta tgtgtttggt gccaatcgg 60
 ataacttggg agctatagtt gacttgaaaa tcttgaatca tttgatccag aacaagaatg 120
 aatactgtat ggaggtgact cccaaaacat tggctgatgt aaaggggtggc actttgattt 180

cttacgaagg aagggttcag ctcttgaaa ttgcataagt ccccgatgaa catgtcaatg 240
 agttcaagtc aatagagaag ttcaaaattt tcaacac 277

<210> 2784
 <211> 270
 <212> DNA
 <213> Glycine max

<400> 2784

caggagctga acccttcctt cgtaagaaat caaagtgcc aacctttacat cagccaatga 60
 gttcaagtca atagagaagt tcaaaatttt caacacaaat aatttgtggg tgaacttaaa 120
 cgcagttaaa aggcttggtg aagctgatgc tcttaagatg gaaattattc ccaatccaaa 180
 ggaagttgac ggaataaaaag ttcttcagct ggaaactgca gctgggtgctg caataagggtt 240
 ctttgacaag gctatgggat taatgttcct 270

<210> 2785
 <211> 292
 <212> DNA
 <213> Glycine max

<220>
 <221> unsure
 <222> (1)..(292)
 <223> unsure at all n locations

<400> 2785

cttaaacgca gttanaaagg cttgttgaag ctgatgctct taagatggaa attattccca 60
 atccaaagga agttgacgga ataaaagttc ttcagctgga aactgcagct ggtgctgcaa 120
 taaggttcctt tgacaaggct attgggatta atgttcctcg atcacgattc cttcctgtga 180
 aggcaacttc agatttgctt cttgtccagt ctgacctcta cactttggaa gacggatttg 240
 tcatcggaac aaagctaggg aaaatcctga aaaccttcta tgaactggga ca 292

<210> 2786
 <211> 191
 <212> DNA
 <213> Glycine max

<400> 2786

gtaaaggggtg gcactttgat ttcttacgaa ggaaggggtc agtccttgga aattgcaaag 60
tccccgatga acatgtcaat gagttcaagt caatagagaa gttcaaaatt ttcaacacaa 120
ataatttggtg ggtgaactta aacgcagtta aaaggcttgt tgaagctgat gctcttaaga 180
tggaattat t 191

<210> 2787
<211> 130
<212> DNA
<213> Glycine max

<400> 2787

attcggataa cttgggagct atagttgact ggaaaatctt gaatcatttg atccagaaca 60
agaatgaata ctgtatggag gtgactccca aaacattggc tgatgtaaag ggtggcactt 120
tgacttctta 130

<210> 2788
<211> 253
<212> DNA
<213> Glycine max

<400> 2788

gacggatttg tcattcggaa caaagctagg gaaaatcctg aaaacccttc tattgaactg 60
ggaccagaat ttaagaaggt tagcaacttc ttgagtcgct acatcacctg tcctagtaac 120
ggacatcatg cttccctaaa agttgctaata catctatagt tctgagcctc gttcatcctc 180
aaggggacca tcatcattgt atcaaaaccg ggtgttaagc tataagttcc cgacggtgtt 240
gccattgtag aca 253

<210> 2789
<211> 236
<212> DNA
<213> Glycine max

<400> 2789

ctttttgccca ttcccatcca aggggcagac aggcaggac gggtagtac ctctggcca 60
cggagacgtc ttcccatcat tagtgaatag tggaagctt gatgtgctat tatcacaggg 120
taaggagtat gtgtttgttg ccaattcaga caacctgggt gctgtagttg acttgaaaat 180

cttaaatacat ttgattgagc acaagaatga atactgtatg gaggtcactc ccaaga 236

<210> 2790
 <211> 253
 <212> DNA
 <213> Glycine max

<400> 2790

acaggcacgg acgggtggta cctcctggc cacggagacg tcttcccatc attagtgaat 60
 agtggaagc ttgatgtgct attatcacag ggtaaggagt atgtgtttgt tgccaattca 120
 gacaacctgg gtgctgtagt tgacttgaaa atcttaaatac atttgattga gcacaagaat 180
 gaatactgta tggaggtcac tccaagaca ttggctgacg tgaaaggtgg cactctgatt 240
 tcttatgaag gaa 253

<210> 2791
 <211> 283
 <212> DNA
 <213> Glycine max

<400> 2791

cgacaagctt gtggtgttga agctaaatgg aggcttgggc acaactatgg gttgcactgg 60
 tcctaaatct gtaattgaag ttcgtgatgg gttgacattt ctagatttaa ttgtgatcca 120
 gattgagaat ctcaattcca aatatggaag caatgttcct ttgcttttga tgaattcatt 180
 caacactcat gatgacactc aaaagattgt tgaaaaatac caaaactcca atattgagat 240
 tcataactttt aaccagagcc agtatcctcg attggttgct gag 283

<210> 2792
 <211> 306
 <212> DNA
 <213> Glycine max

<220>
 <221> unsure
 <222> (1)..(306)
 <223> unsure at all n locations

<400> 2792

aagctaaatg gaggcttggg cacaactatg ggttgactg gtcctaaatc tgtaattgaa 60
 gttcgtgatg ggttgacatt tctagattta attgtgatcc agattgagaa tctcaattcc 120

aaatatggaa gcaatgttcc ttgcttttg atgaattcat tcaacactca tgatgacact 180
 caaaagattg ttgaaaaata ccaaaactcc aatattgaga ttcattcttt taaccagagc 240
 cagtatcctc gattgggtgc tgagggactt ttgcccattg ccttccaaag ggcatactga 300
 caagga 306

<210> 2793
 <211> 263
 <212> DNA
 <213> Glycine max
 <400> 2793

gacaaggatg gatggtaccc tcctggccat ggagatgtct ttccatcatt attgaacagt 60
 ggcaaacttg atgcactatt gtcacagggt aaagagtatg tatttggtgc caattcagat 120
 aacttgggag ctatagttga cttgaaaatc ttaaattcatt tgatccagaa caagaatgaa 180
 tactgtatgg aggtgactcc caaaacattg gctgatgtaa aggggtggcac tttgatttct 240
 tacgaaggaa gggttcagct ttt 263

<210> 2794
 <211> 274
 <212> DNA
 <213> Glycine max
 <400> 2794

cttttaacca gagccagtat cctcgattgg ttgctgagga ctttttgcca ttgccttcca 60
 aagggcatatc tgacaaggat ggatggtacc ctctggcca tggagatgtc tttccatcat 120
 tattgaacag tggcaaactt atgcactatt gtcacagggt aaagagtatg tatttggtgc 180
 caattcagat aacttgggag ctatagttga cttgaaaatc ttaaattcatt gatccagaac 240
 aagaatgaat actgtatgga ggtgactccc aaaa 274

<210> 2795
 <211> 273
 <212> DNA
 <213> Glycine max
 <400> 2795

acgctgcgag aagacgacag aaggggattt aattgtcatc caaattgaga atcccaattc 60

caaatatgga agcaatgttc ctttgctttt gatgaattca ttcaaacactc atgatgacac 120
tcaaaagatt gttgaaaaat accaaaactc aaatattgag attcatactt ttaaccagag 180
ccagtatcct cgattgggtg ttgaggactc tttgccattg ctttccaaag ggcatactga 240
caaggatgga tgggtaccctc ctggccatgg tga 273

<210> 2796
<211> 254
<212> DNA
<213> Glycine max

<220>
<221> unsure
<222> (1)..(254)
<223> unsure at all n locations

<400> 2796

aattgaagtt cgtgatgggt tgacatttct agatttaatt gtgatccaga ttgagaatct 60
caattccaaa tatggaagca atgttccttt gcttttgatg aattcattca acactcatga 120
tgacactcaa aagattgttg aaaaatacca aaactccaat attgagattc atacttttaa 180
ccagagccag tatcctcgat tggttgctga ggactttttg ccattgcctt ccaaagggca 240
tactgacaag natg 254

<210> 2797
<211> 274
<212> DNA
<213> Glycine max

<400> 2797

ccaaaactcc aatattgaga ttcatacttt taaccagagc cagtatcctc gattggttgc 60
tgaggacttt ttgccattgc cttccaaagg gcatactgac aaggatggat ggtaccctcc 120
tggccatgga gatgtcttcc cacattattg aacagtggca aacttgatgc actattgtca 180
cagggtaaag agtatgtatt tgttgccaat tcagataact tgggagctat agttgacttg 240
aaaatcttaa atcatttgat ccagaacaag aatg 274

<210> 2798
<211> 243
<212> DNA

<213> Glycine max

<400> 2798

ccagattgag aatctcaatt ccaaatatgg aagcaatggt cctttgcttc tgatgaattc 60
attcaacact catgatgaca ctcaaaagat tgttgaaaaa taccaaaact ccaatattga 120
gattcatact ttaaccaga gccagtatcc tcgattgggt gctgaggact ttttgccatt 180
gccttccaaa gggcatactg acaaggatgg atggtaccct cctggccatg gagatgtctt 240
tcc 243

<210> 2799

<211> 253

<212> DNA

<213> Glycine max

<400> 2799

caagggcata ctgacaagga tggatggtac cctcctggcc atggtgatgt cttcccatca 60
ttattgaaca gtggcaaact tgatgcacta ttgtcacagg gtaaagagta tgtgtttgtt 120
gccaatcggg ttaacttggg agctatagtt gacttgaaaa tcttgaatca tttgatccag 180
aacaagaatg aatactgtat ggaggtgact cccaaaacat tggctgatgt aaaggggtggc 240
actttgattt ctt 253

<210> 2800

<211> 246

<212> DNA

<213> Glycine max

<400> 2800

caaaagattg ttgaaaaata ccaaaactca aatattgaga ttcatacttt taaccagagc 60
cagtatcctc gattggttgt tgaggacttt ttgccattgc ctcccaaagg gcatactgac 120
aaggatggat ggtaccctcc tggccatggt gatgtcttcc catcattatt gaacagtggc 180
aaacttgatg cactattgtc acatggtaaa gagtatgtgt ttgttgccaa ttcggataac 240
ttggga 246

<210> 2801

<211> 265

<212> DNA

<213> Glycine max

<400> 2801

cgcacgtacg cgtacgcggc attcggctcg agcaagttgt ggtggtgaag ctaaattggag 60
gcttggggaac aactatgggt tgcactggtc ctaaactctgt aattgaagtt cgtgatgggt 120
tgacatttct agatttaatt gtcattccaa ttgagaatct caattccaaa tatggaagca 180
atgttccttt gcttttgatg aattcattca acactcatga tgacactcaa aagattgttg 240
aaaaatacca aaactcaaatt attga 265

<210> 2802

<211> 261

<212> DNA

<213> Glycine max

<400> 2802

atctagaggt tgacatttct agatttaatt gtgatccaga ttgagaatct caattccaaa 60
tatggaagca atgttccttt gcttttgatg aattcattca acactcatga tgacactcaa 120
aagattgttg aaaaatacca aaactccaat attgagattc atacttttaa ccagagccag 180
tatactcgat tggttgctga ggactttttg ccattgcctt acaaagggga tactgactcc 240
gatggctggg accctcctgg c 261

<210> 2803

<211> 195

<212> DNA

<213> Glycine max

<400> 2803

gatgaattca ttcaacactc atgatgacac tcaggagatt gttgaaaaat accagaactc 60
aaatattgag attcatactt ttaaccagag ccagtatcct cgattgggtg ttgaggactt 120
tttgccattg ccttccaaag ggcatactga caaggatgga tggtagcctc ctggccatgg 180
tgatgtcttc ccatac 195

<210> 2804

<211> 265

<212> DNA

<213> Glycine max

<400> 2804

gttgaagcta aatggaggct tgggcacaac tatggggtgc actgggccta aatctgtaat 60

tgaagttcgt gatgggttga catttctaga ttgaatggtg atccagattg agaatctcaa 120

ttccaaatat ggaagcaagt tcctttgctt ttgatgaatt cattcaacac tcatgatgac 180

actcaaaaga ttgttgaaaa ataccaaaac tccaatattg agattcatac ttttaaccag 240

agccagtatc ctcgattggt tgctg 265

<210> 2805

<211> 262

<212> DNA

<213> Glycine max

<400> 2805

gcaatgtatg gtttggagct ggtgttatcc tcaagggaaa aatcagtatc gtggccaatc 60

ctggtgttaa gctggaagtt cccgatggtg ctgtcatttc ggataaggaa attaatggcc 120

cagaggacct cctgtgagga agcccgtga gtttagaagt atcagactgt atactatctt 180

tatggtctca tgttttttcc aattattact actcccaagt ttgatgggca aagaaaataa 240

gtcccttttt gtttgtcttc tg 262

<210> 2806

<211> 249

<212> DNA

<213> Glycine max

<400> 2806

gctggtgtta tcctcaaggg aaaaatcagt atcgtggcca atcctggtgt taagctggaa 60

gttccccgatg gtgctgtcat ttccggataag gaaattaatg gccagagga cctcctgtga 120

ggaagccccgc tgagttttaga agtatcagac tgtatactat ctttatgggc tcatgttttt 180

tccaattatt actactccca agttttagtg gcaaagaaaa taagtccttt tttgtttgtc 240

ttctgattc 249

<210> 2807

<211> 183

<212> DNA

<213> Glycine max

<400> 2807

cagaatttaa gaaggtttagc aatttcttga gccggttcaa gtcaatcccc atattgttga 60

gcttgacagt ctaaaagtgg caggcgatgt atggtttggg gctggtgtaa tccttaaggg 120

aaaagcaagt attcttgcaa aaccgggtgt gaagctggaa atacctgacg gagctgtgat 180

cgc 183

<210> 2808

<211> 184

<212> DNA

<213> Glycine max

<220>

<221> unsure

<222> (1)..(184)

<223> unsure at all n locations

<400> 2808

aggggnnnntt tgattgatat ggaatgctac actcaagcat agctatgaca tcccatgctc 60

cctaacctaa gcatttggtc cgagccttcc tttaaacctt agccgtttagc ctgaatgggt 120

ggtgaagacc ttttggcaat ggccttccaa aggccttccct gccaaaggttg gttggtacct 180

tcct 184

<210> 2809

<211> 389

<212> DNA

<213> Glycine max

<220>

<221> unsure

<222> (1)..(389)

<223> unsure at all n locations

<400> 2809

accacgcgtc cgtttcaaac tcatcgatac aacaaacatg tgggtgagtt taagagccat 60

caagaggttt gttgacactg ttgaagtaag gcagaagaag ccttcatttt caaaggacac 120

agcagctgga ccagcaataa agttctttga taatgtatgt ggtgtctccg tgcccgaatc 180

tcgctttctt cccttggtatg caacatcaga tctattactt cttcagtcag atctatacac 240

ttgtagagaa ggtgttttaa ctcgaaatcc agctagaact aaccctttaa atcctgtgat 300

agacttggga cctgaatttg aaaagtttgg tgactttcan agtcgcttca gatccattcc 360
aagcatcatt gaggttggac agtttgatg 389

<210> 2810
<211> 411
<212> DNA
<213> Glycine max

<400> 2810

tcgagcttct tcttctctcg aatcttccac cgcaatgacc accgccaccg agaagctctc 60
cgctctcaaa tccgccgtcg ccggattgaa cgaaatcagt gagagtgaga agaacggatt 120
catcagcctc gtcagccgct atctcagtgg cgaagcgcag catgtggaat ggagcaagat 180
ccagacgcct acggacgaag tggttgtgcc ttacgacact ttggcgccaa ctcttgatgg 240
ttcttcggac gtgaagaatc tattggacaa gcttgtggtg ttgaagctaa atggaggctt 300
gggcacaact atgggttgca ctggtcctaa atctgtaatt gaagttcgtg atgggttgac 360
atttctagat ttaattgtga tccagattga gaatctcaat tccaaatatg g 411

<210> 2811
<211> 358
<212> DNA
<213> Glycine max

<400> 2811

ggcactttga tttcttacga aggaaggggt cagcttttgg aaattgcaca agtcccagat 60
gaacatgtca atgagttcaa gtcaatagag aagttcaaaa ttttcaacac aaataatttg 120
tgggtgaact taaatgcagt taaaaggctt gttgaagctg atgctcttaa gatggaaatt 180
attcccaatc caaaggaagt tgatggaata aaagttcttc agctggaaac tgcagctggt 240
gctgcaataa ggttctttga caaggctatt gggattaatg ttctctgac acgattcctt 300
cctgtgaagg caacttcaga tttgcttctt gtccagtctg acctctacac tttggaag 358

<210> 2812
<211> 404
<212> DNA
<213> Glycine max

<400> 2812

gattgttggt atataccaaa actccaatat tgagattcat acttttaacc agagccagta 60
tcctcgattg gttgctgagg actttttgcc attgccttcc aaagggcata ctgacaagga 120
tggatggtac cctcctggcc atggagatgt ctttccatca ttattgaaca gtggcaaact 180
tgatgcacta ttgtcacagg gtaaagagta tgtatttggt gccaatcag ataacttggg 240
agctatagtt gacttgagta tccttattta agtttcattg gttctttctg tattgtttgt 300
aatgagcttt ggccacatta cttattatta cataaaatca gtgtctttct ttagtgccat 360
cagtgtactt gactcattga ttagaatac ttaaatcatt tgat 404

<210> 2813
<211> 372
<212> DNA
<213> Glycine max

<400> 2813

tacggctgcg agaagacgac agaaggggag taaaagtctg tcaattggaa actgcagctg 60
gtgcagcagt aagggtcttt gacaaagcta ttggcattaa tgtgcctcga tctcgcttcc 120
ttcgcgtaaa ggcaacttca gacttgcac ttgtccagtc ggacctttac actttacaag 180
atggattggt tattaggaac caatctaggg caaatcctga aaatccttcc attgaattgg 240
ggccagaatt taagaatggt agcaatttct tgagccgggt catgtcaatc ccagtaatg 300
ttgagcttga cagtctaaaa gtggcaggcg atgtatgggt tggagctgggt gtaatcctta 360
gaggaaaagc aa 372

<210> 2814
<211> 415
<212> DNA
<213> Glycine max

<400> 2814

agtacggctg cgagaagacg acagaagggg agtaaaagtt cttcaattgg aaactgcagc 60
tggtgcagca gtaagggttct ttgacaaagc tattggcatt aatgtgcctc gatctcgctt 120
ccttcgctg aaggcaactt cagacttgca tcttgctcag tcggaccttt acactttaca 180
agatggattg gttattagga accaatctag ggcaaactc gaaaatcctt ccattgaatt 240
ggggccagaa tttaagaatg ttagcaattt cttgagccgg ttcaagtcaa tccccagtat 300

tggtgagctt gacagtctaa aagtggcagg cgatgtatgg tttgaacctg gtgtaatcct 360
tacaggacaa gcaagtattc ttgcataacc ggggtgtgaag ctggaaatac ctgac 415